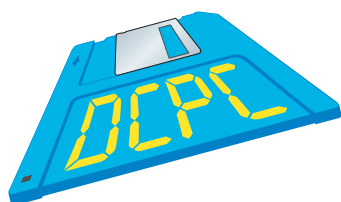




INDUSTRIAL WEIGHING

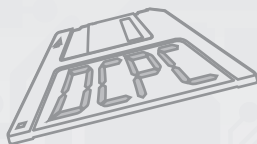
GENERAL CATALOGUE
No. 18



DATA-CONTROL PC



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PESALIA | DATA-CONTROL PC, diseña, fabrica y comercializa equipos de pesaje industrial en colaboración con nuestros clientes.

PESALIA | DATA-CONTROL PC, designs, makes and commercializes industrial weighing equipment in collaboration with our customers.

PESALIA | DATA-CONTROL PC, conçoit, fabrique et commercialise des équipements de pesage industriel en collaboration avec nos clients.

PRODUCTOS

Equipos y sistemas de pesaje para todo tipo de aplicaciones industriales.

PRODUCTS

All type of Weighing equipment and systems for industrial applications.

PRODUITS

Équipements et systèmes de pesage pour tout sort d'applications industrielles.



I+D

Desarrollamos nuevos productos tanto estándar como a medida del usuario.

R&D

We develop new products as standard or customized requirements.

R+D

Nous développons de nouveaux produits standard ainsi comme à mesure de l'utilisateur.

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Ofrecemos la solución mas adecuada a las necesidades de nuestros clientes.

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We offer the best solution for our customers' necessities.

SERVICE AU CLIENT

Nous offrons la solution la plus adéquat aux nécessités de nos clients.



CALIDAD

Un manual de calidad determina las responsabilidades en todos los ámbitos de trabajo.

QUALITY

A manual of quality determines the responsibilities in all working areas.

QUALITÉ

Un manuel de qualité détermine les responsabilités dans tous les domaines de travail.



PLAZO DE ENTREGA:

Aplicando un sistema "Just-in-time" garantizamos un servicio inmediato.

DELIVERY TIME:

Our just-in-time system warrants an immediate service.

TEMPS DE LIVRAISON:

En appliquant un système "Just-in-time" nous garantissons un service immédiat.

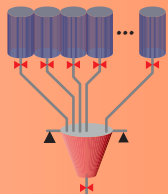


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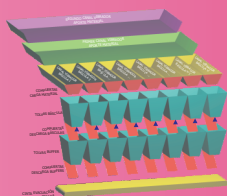
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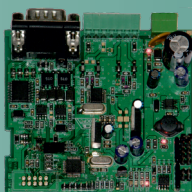
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Weighing indicators



6 DW-PT: DW-PT Weighing indicator, stainless steel enclosure. (Weight-Tare-Piece counter-Totalizer software).



7 DW-ST: DW-ST Weighing indicator, panel mount, 96mm x 48mm x 116mm (Weight-Tare-Limits / Peaks software).



8 DW-MI: DW-MI Weighing indicator, panel mount, 96mm x 48mm x 138mm (Basic multifunction software).



10 DW-M2D: DW-M2D Weighing indicator, panel mount 96mm x 72mm x 138mm (Basic multifunction software).



12 DW-BG: DW-BG Weighing indicator, panel mount 96mm x 96mm x 138mm (Basic multifunction software).



14 DW-IX: DW-IX Weighing indicator, stainless steel enclosure. (Basic multifunction software).



16 DW-PA: DW-PA Weighing indicator, panel mount, stainless steel enclosure. (Basic multifunction software).



18 DW-XT: DW-XT Weighing indicator, panel mount, 192mm x 96mm x 150mm (Advanced multifunction software).



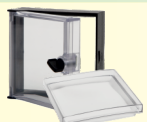
20 DW-CT: DW-CT Weighing indicator, panel mount, stainless steel enclosure. (Advanced multifunction software).



22 DW-SE: DW-SE Weighing indicator, stainless steel enclosure. (Advanced multifunction software).



24 DW-RF: DW-RF Wireless weighing indicator (Weight-Tare-Totalizer software).



25 DW-## ACCESSORIES

Weight-Tare-Piece Counter-Accumulator Indicator

FEATURES:

- ✓ Accuracy class: III - 6000d concerning EN45501 / OIML R76 (T.C: CEM-CY-05/0422-5.2).
- ✓ Load Cell Input with a 24 bits A/D Sigma-Delta converter.
- ✓ Enhanced protection against EMI (Electromagnetic interferences)
- ✓ 7 Segments Display of 6 Digits (20 mm).
- ✓ 10 Led show the state of the indicator
- ✓ 1 Serial Port RS232C to communicate with PC, Printers or Remote displays.
- ✓ ON / OFF Key on the keyboard.
- ✓ 5 Keys Keyboard to use and program the controller.
- ✓ Electronic and mechanical seal.
- ✓ Standard or configurable ticket through PC Utility.
- ✓ Indicator with mV pre-calibration.
- ✓ Power Supply: 12Vdc / 220Vac.
- ✓ Stainless steel enclosure.
- ✓ DW-PT and DW-PT/X: 210 x 116 x 60mm.
- ✓ DW-PT/P: 214 x 125 x 38mm.
- ✓ DW-PT/B: 225 x 136 x 50mm.



Configuration utility of the weight controller from any PC.

OPTIONS:

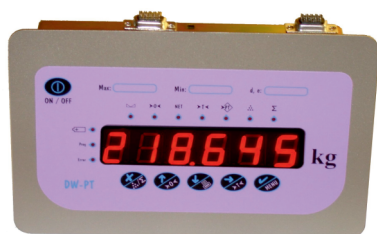
- ✓ One RS485 serial port.
- ✓ 2nd RS232 serial port.
- ✓ Time and date.
- ✓ Wall, column or table mount.
- ✓ IP65 water proof with connectors.
- ✓ External communication options (USB 2.0, WIFI and Ethernet 10 / 100M Base-T communication ports).

OPERATING MODES:

- ✓ **Weight-Tare:** Allow to display the weight of a scale, apply tares, untare and program fixed tares.
- ✓ **Pieces Counter:** Allow to count pieces.
- ✓ **Accumulator:** Allow to accumulate weights and number of weights.
- ✓ **Transmitter:** Allows to send load cell signals through RS232 or RS485 to any device.

APPLICATIONS:

- ✓ Simple weight.
- ✓ On-Board weighing of movable equipment.
- ✓ Truck weighing through PC.



Weighing indicator
DW-PT/P



Weighing indicator
DW-PT/B



Weighing indicator
DW-PT and DW-PT/X

**3 formats available:
panel, wall and desktop mount**

49 x 96 panel mount WEIGHING Indicator

DW-ST/B FEATURES:

- ✓ Load Cell Input with a 24 bits A/D Sigma-Delta converter.
- ✓ Enhanced protection against EMI (Electromagnetic interferences)
- ✓ 7 Segments Display of 6 Digits (12 mm).
- ✓ 14 Led show the state of the indicator.
- ✓ 1 Serial Port RS232C or RS485 to communicate with PC, Printers or Remote displays.
- ✓ 5 Keys Keyboard to use and program the controller.
- ✓ Electronic and mechanical seal.
- ✓ Standard or configurable ticket through PC Utility.
- ✓ Modbus ASCII Protocol.
- ✓ Indicator with mV pre-calibration.
- ✓ Power Supply: 9..30Vdc / 9..24Vac
- ✓ Dimensions: 48x96x116mm.

DW-ST/D FEATURES:

- ✓ Idem DW-ST/B
- ✓ 2 PNP or NPN Opto-isolated Inputs.
- ✓ 2 Relay outputs

DW-ST/F FEATURES:

- ✓ Idem DW-ST/B
- ✓ 2 PNP or NPN Opto-isolated Inputs.
- ✓ 2 Relay outputs
- ✓ Opto-isolated analogical Output: 0-20mA, 4-20mA, 0-5Vdc, 0-10Vdc.



Configuration utility of the weight controller from any PC.

OPTIONS:

- ✓ 2nd RS232 serial port.
- ✓ Time and date.
- ✓ External communication options (USB 2.0, WIFI and Ethernet 10 / 100M Base-T communication ports).

OPERATING MODES:

- ✓ **Weight-Tare:** Allow to display the weight of a scale, apply tares and untare.
- ✓ **Setpoints & Peak Memory:** Allow to manage two setpoints and calculate the peaks values.
- ✓ **Accumulator:** Allow to accumulate weights and number of weights.
- ✓ **Transmitter:** Allows to send load cell signals through RS232 or RS485 to any device.

APPLICATIONS:

- ✓ On-Board weighing of movable equipment.
- ✓ Maximum and minimum control level on silos.
- ✓ Simple weight.
- ✓ Communication with PLCs and PC.



Weighing Indicator DW-ST

48x96 panel mount multifunction WEIGHING indicator

- This controller allows to control various industrial weighing processes like Filling, Integration, Bulk-Weighing, Over/Under, Weight Tare, etc.
- It is available in two versions: standard and with DSP.
- This weighing indicator with DSP has advanced digital filters (IIR and FIR) that allow to obtain weight data readings even faster and with higher precision.

FEATURES:

- ✓ Accuracy class: III - 6000d concerning EN45501 / OIML R76 (TC: 100312001).
- ✓ Accuracy classes for automatic weighing: 0.2, 0.5, 1 and 2, according to OIML R107 (EC: 151700002).
- ✓ Accuracy classes for automatic weighing: X(0.2), X(0.5), X(1) and X(2), according to OIML R61 (EC: 151700002).
- ✓ Accuracy classes XI, XII, XIII, XIII, Y(a), Y(b) according to OIML R51 (EC: 151700002).
- ✓ Certified indicator firmware according to guide WELMEC 7.2 (Certificate num. 151700003).
- ✓ Load Cell Input with a 24 bits A/D Sigma-Delta converter.
- ✓ 7 Segments Display of 6 Digits and 14 Led Indicators.
- ✓ 2 Opto-isolated Serial Ports: RS232C and RS422 or RS485.
- ✓ 8 Keys Keyboard to use and program the controller.
- ✓ 4 PNP or NPN Opto-isolated Inputs.
- ✓ 4 Relay outputs.
- ✓ Power Supply: 115 Vac / 220 Vac.
- ✓ Dimensions: 48x96x139mm.



OPTIONS:

- ✓ 2nd RS232 serial port.
- ✓ Ethernet 10/100M Base T communication port.
- ✓ WIFI communication port.
- ✓ USB 2.0 communication port.
- ✓ Time and date.
- ✓ 24 Vdc Power supply.
- ✓ Opto-isolated analogical Output: 0-20 mA, 4-20 mA (only with 24 Vdc power supply).

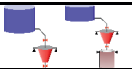
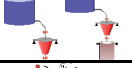
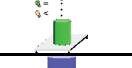
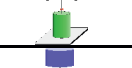

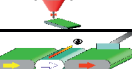

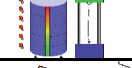
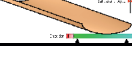

ADDITIONAL FEATURES and OPTIONS (DSP):

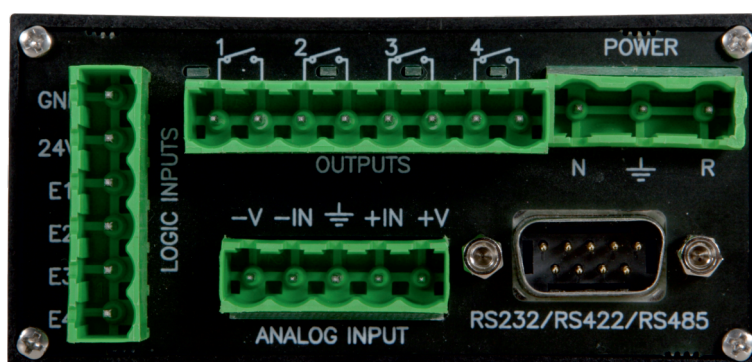
- ✓ Load Cell Input with a *high speed* 24 bits A/D Sigma-Delta converter.
- ✓ Option: 2nd RS485 serial port.
- ✓ Option: internal USB 2.0 communication port.



Multifunction weight indicator DW-MI

OPERATING MODES:

Reference	Description	
	FillerAdd	Additive filling, bagging: 1 product up to 3 rates, unload and alarms.
	FillerAddAdv	Additive filling, bagging: 1 product up to 2 rates, unload, alarms and 10 selectable programs.
	FillerMan	Manual filling, bagging: indicator for Defect – Ok – Excess weight.
	FillerSub	Dispensing filler (lost-in-weight): 1 product up to 3 rates, reload and alarms.
	FillerAso	Associative filling: 1 product up to 3 rates, unload and alarms.
	Bulk	Bulk weighing: up to 2 rates, unload, alarms, ticket.
	Check	Check-weighing: In motion weighing, checks the weighing of a product.
	Quality	Quality control: Batches verification for prepacked product, based on OIML R87 (prepacked products quantity).
	Limits	Limits, alarms, totalizing, integration: up to 4 weighing set point, configurable inputs, variables printing, peaks memories.
	Integra	Beld weighing: Allows to totalize, fix setpoints, flow rate by hour, etc.



DW-MI Rear view

96x72 panel mount multifunction WEIGHING indicator

- This controller allows to control various industrial weighing processes like Filling, Integration, Bulk-Weighing, Over/Under, Weight Tare, etc.
- It is available in two versions: standard and with DSP.
- This weighing indicator with DSP has advanced digital filters (IIR and FIR) that allow to obtain weight data readings even faster and with higher precision.

FEATURES:

- ✓ Accuracy class: III - 6000d concerning EN45501 / OIML R76 (T.C: 100312001).
- ✓ Accuracy classes for automatic weighing: 0.2, 0.5, 1 and 2, according to OIML R107 (EC: 151700002).
- ✓ Accuracy classes for automatic weighing: X(0.2), X(0.5), X(1) and X(2), according to OIML R061 (EC: 151700002).
- ✓ Accuracy classes XI, XII, XIII, XIII, Y(a), Y(b) according to OIML R51 (EC: 151700002).
- ✓ Certified indicator firmware according to guide WELMEC 7.2 (Certificate num. 151700003).
- ✓ Load Cell Input with a 24 bits A/D Sigma-Delta converter.
- ✓ 2 Displays of 7 Segments: 1 of 6 Digits, and the other of 8 Digits and 14 Led Indicators.
- ✓ 2 Opto-isolated Serial Ports: RS232C and RS422 or RS485.
- ✓ 8 digits Keyboard for an easy to use and program the controller.
- ✓ 4 PNP o NPN Opto-isolated Inputs.
- ✓ 4 Relays output
- ✓ Power Supply: 115Vac / 220Vac.
- ✓ Dimensions: 72x96x139mm



OPTIONS:

- ✓ 2nd RS232 serial port.
- ✓ Ethernet 10/100M Base T communication port.
- ✓ WIFI communication port.
- ✓ USB 2.0 communication port.
- ✓ Opto-isolated Encoder Input.
- ✓ Time and date.
- ✓ 24 Vdc Power supply.
- ✓ Opto-isolated analogical Output: 0-20mA, 4-20mA, 0-5Vdc, 0-10Vdc.

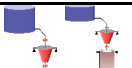
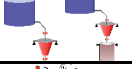
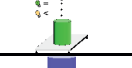
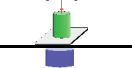

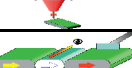

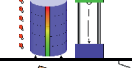
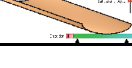

ADDITIONAL FEATURES and OPTIONS (DSP):

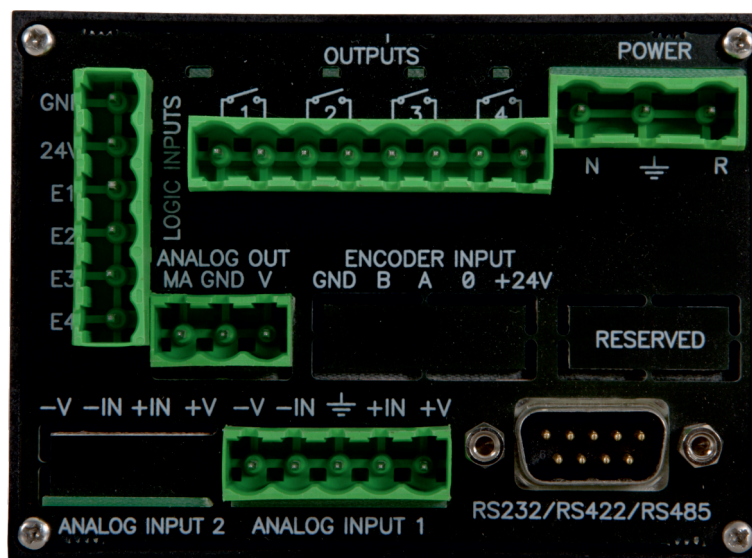
- ✓ Load Cell Input with a *high speed* 24 bits A/D Sigma-Delta converter.
- ✓ Option: 2nd RS485 serial port.
- ✓ Option: internal USB 2.0 communication port.



Multifunction weight indicator DW-M2D

OPERATING MODES:

Reference	Description	
	FillerAdd	Additive filling, bagging: 1 product up to 3 rates, unload and alarms.
	FillerAddAdv	Additive filling, bagging: 1 product up to 2 rates, unload, alarms and 10 selectable programs.
	FillerMan	Manual filling, bagging: indicator for Defect – Ok – Excess weight.
	FillerSub	Dispensing filler (lost-in-weight): 1 product up to 3 rates, reload and alarms.
	FillerAso	Associative filling: 1 product up to 3 rates, unload and alarms.
	Bulk	Bulk weighing: up to 2 rates, unload, alarms, ticket.
	Check	Check-weighing: In motion weighing, checks the weighing of a product.
	Quality	Quality control: Batches verification for prepacked product, based on OIML R87 (prepacked products quantity).
	Limits	Limits, alarms, totalizing, integration: up to 4 weighing set point, configurable inputs, variables printing, peaks memories.
	Integra	Beld weighing: Allows to totalize, fix setpoints, flow rate by hour, etc.



DW-M2D Rear view

96x96 panel mount multifunction WEIGHING indicator

- This controller allows to control various industrial weighing processes like Filling, Integration, Bulk-Weighing, Over/Under, Weight Tare, etc.
- It is available in two versions: standard and with DSP.
- This weighing indicator with DSP has advanced digital filters (IIR and FIR) that allow to obtain weight data readings even faster and with higher precision.

FEATURES:

- ✓ Accuracy class: III - 6000d concerning EN45501 / OIML R76 (T.C: 100312001).
- ✓ Accuracy classes for automatic weighing: 0.2, 0.5, 1 and 2, according to OIML R107 (EC: 151700002).
- ✓ Accuracy classes for automatic weighing: X(0.2), X(0.5), X(1) and X(2), according to OIML R061 (EC: 151700002).
- ✓ Accuracy classes XI, XII, XIII, XIII, Y(a), Y(b) according to OIML R51 (EC: 151700002).
- ✓ Certified indicator firmware according to guide WELMEC 7.2 (Certificate num. 151700003).
- ✓ Load Cell Input with a 24 bits A/D Sigma-Delta converter.
- ✓ 2 Displays of 7 Segments: 1 of 6 Digits, and 1 of 8 Digits and 14 Led Indicators.
- ✓ 2 Opto-isolated Serial Ports: RS232C and RS422 or RS485.
- ✓ 20 Keys Keyboard to use and program the controller.
- ✓ 4 PNP or NPN Opto-isolated Inputs.
- ✓ 4 Relay outputs
- ✓ Power Supply: 115 Vac / 220 Vac.
- ✓ Dimensions: 96x96x139mm.



OPTIONS:

- ✓ 2nd RS232 serial port.
- ✓ Ethernet 10/100M Base T communication port.
- ✓ WIFI communication port.
- ✓ USB 2.0 communication port.
- ✓ Opto-isolated Encoder Input.
- ✓ Time and date.
- ✓ 24 Vdc Power supply.
- ✓ PS2 / PC Keyboard Input.
- ✓ Opto-isolated analogical Output: 0-20mA, 4-20mA, 0-5Vdc, 0-10Vdc.

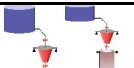
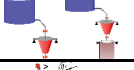

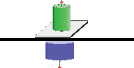
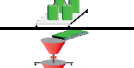
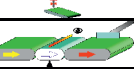

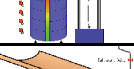


ADDITIONAL FEATURES and OPTIONS (DSP):

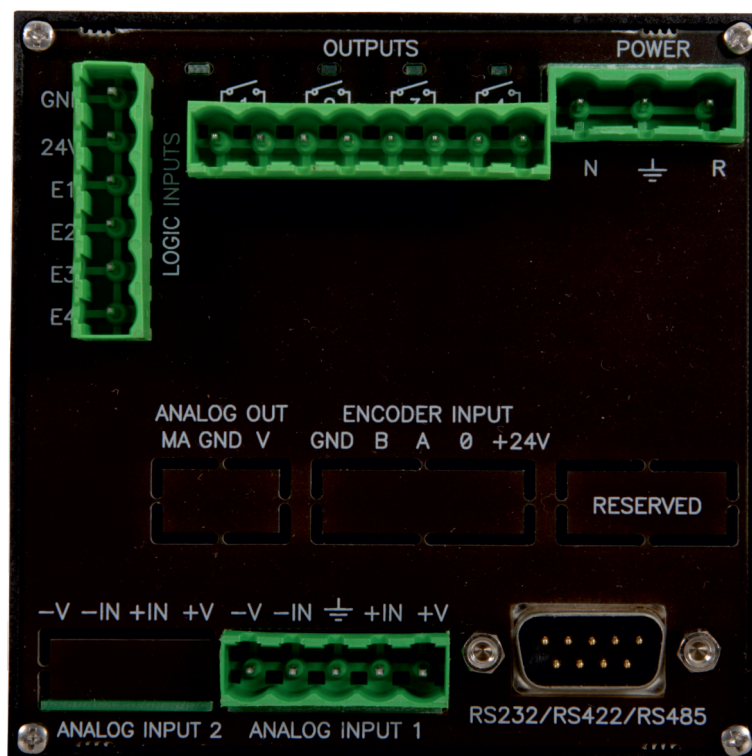
- ✓ Load Cell Input with a *high speed* 24 bits A/D Sigma-Delta converter.
- ✓ Option: 2nd RS485 serial port.
- ✓ Option: internal USB 2.0 communication port.



Multifunction weight indicator DW-BG

OPERATING MODES:

Reference	Description	
	FillerAdd	Additive filling, bagging: 1 product up to 3 rates, unload and alarms.
	FillerAddAdv	Additive filling, bagging: 1 product up to 2 rates, unload, alarms and 10 selectable programs.
	FillerMan	Manual filling, bagging: indicator for Defect – Ok – Excess weight.
	FillerSub	Dispensing filler (lost-in-weight): 1 product up to 3 rates, reload and alarms.
	FillerAso	Associative filling: 1 product up to 3 rates, unload and alarms.
	Bulk	Bulk weighing: up to 2 rates, unload, alarms, ticket.
	Check	Check-weighing: In motion weighing, checks the weighing of a product.
	Quality	Quality control: Batches verification for prepacked product, based on OIML R87 (prepacked products quantity).
	Limits	Limits, alarms, totalizing, integration: up to 4 weighing set point, configurable inputs, variables printing, peaks memories.
	Integra	Beld weighing: Allows to totalize, fix setpoints, flow rate by hour, etc.



DW-BG Rear view

Stainless steel multifunction WEIGHING indicator

- This controller allows to control various industrial weighing processes like Filling, Integration, Bulk-Weighing, Over/Under, Weight Tare, etc.
- It is available in two versions: standard and with DSP.
- This weighing indicator with DSP has advanced digital filters (IIR and FIR) that allow to obtain weight data readings even faster and with higher precision.

FEATURES:

- ✓ Accuracy class: III - 6000d concerning EN45501 / OIML R76 (T.C: 100312001).
- ✓ Accuracy classes for automatic weighing: 0.2, 0.5, 1 and 2, according to OIML R107 (EC: 151700002).
- ✓ Accuracy classes for automatic weighing: X(0.2), X(0.5), X(1) and X(2), according to OIML R061 (EC: 151700002).
- ✓ Accuracy classes XI, XII, XIII, XIII, Y(a), Y(b) according to OIML R51 (EC: 151700002).
- ✓ Certified indicator firmware according to guide WELMEC 7.2 (Certificate num. 151700003).
- ✓ Load Cell Input with a 24 bits A/D Sigma-Delta converter.
- ✓ 2 Displays of 7 Segments: 1 of 6 Digits, and 1 of 8 Digits and 15 Led Indicators.
- ✓ 2 Opto-isolated Serial Ports: RS232C and RS422 or RS485.
- ✓ 20 Keys Keyboard to use and program the controller.
- ✓ 4 PNP or NPN Opto-isolated Inputs.
- ✓ 4 Relay outputs
- ✓ Power Supply: 115 Vac / 220 Vac.
- ✓ 210x175x55mm Stainless steel enclosure.
- ✓ Wall, column or desktop mount.
- ✓ IP54 water proof.
- ✓ ON/OFF switch.
- ✓ Start / Stop Button.



OPTIONS:

- ✓ 2nd RS232 serial port.
- ✓ Ethernet 10/100M Base T communication port.
- ✓ WIFI communication port.
- ✓ USB 2.0 communication port.
- ✓ Opto-isolated Encoder Input.
- ✓ Time and date.
- ✓ 24 Vdc Power supply.
- ✓ PS2 / PC Keyboard Input.
- ✓ Up to IP65 Water Proof.
- ✓ Opto-isolated analogical Output: 0-20 mA, 4-20 mA (only with 24 Vdc power supply).

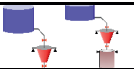
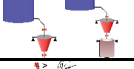

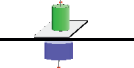
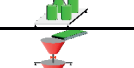
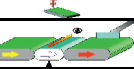

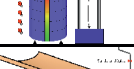


ADDITIONAL FEATURES and OPTIONS (DSP):

- ✓ Load Cell Input with a *high speed* 24 bits A/D Sigma-Delta converter.
- ✓ Option: 2nd RS485 serial port.
- ✓ Option: internal USB 2.0 commun



Multifunction weight indicator DW-IX

OPERATING MODES:

Reference	Description	
	FillerAdd	Additive filling, bagging: 1 product up to 3 rates, unload and alarms.
	FillerAddAdv	Additive filling, bagging: 1 product up to 2 rates, unload, alarms and 10 selectable programs.
	FillerMan	Manual filling, bagging: indicator for Defect – Ok – Excess weight.
	FillerSub	Dispensing filler (lost-in-weight): 1 product up to 3 rates, reload and alarms.
	FillerAso	Associative filling: 1 product up to 3 rates, unload and alarms.
	Bulk	Bulk weighing: up to 2 rates, unload, alarms, ticket.
	Check	Check-weighing: In motion weighing, checks the weighing of a product.
	Quality	Quality control: Batches verification for prepacked product, based on OIML R87 (prepacked products quantity).
	Limits	Limits, alarms, totalizing, integration: up to 4 weighing set point, configurable inputs, variables printing, peaks memories.
	Integra	Beld weighing: Allows to totalize, fix setpoints, flow rate by hour, etc.



DW-IX Rear view

Stainless steel panel mount multifunction WEIGHING indicator

- This controller allows to control various industrial weighing processes like Filling, Integration, Bulk-Weighing, Over/Under, Weight Tare, etc.
- It is available in two versions: standard and with DSP.
- This weighing indicator with DSP has advanced digital filters (IIR and FIR) that allow to obtain weight data readings even faster and with higher precision.

FEATURES:

- ✓ Accuracy class: III - 6000d concerning EN45501 / OIML R76 (T.C: 100312001).
- ✓ Accuracy classes for automatic weighing: 0.2, 0.5, 1 and 2, according to OIML R107 (EC: 151700002).
- ✓ Accuracy classes for automatic weighing: X(0.2), X(0.5), X(1) and X(2), according to OIML R061 (EC: 151700002).
- ✓ Accuracy classes XI, XII, XIII, XIII, Y(a), Y(b) according to OIML R51 (EC: 151700002).
- ✓ Certified indicator firmware according to guide WELMEC 7.2 (Certificate num. 151700003).
- ✓ Load Cell Input with a 24 bits A/D Sigma-Delta converter.
- ✓ 2 Displays of 7 Segments: 1 of 6 Digits, and 1 of 8 Digits and 15 Led Indicators.
- ✓ 2 Opto-isolated Serial Ports: RS232C and RS422 or RS485.
- ✓ 20 Keys Keyboard to use and program the controller.
- ✓ 4 PNP or NPN Opto-isolated Inputs.
- ✓ 4 Relay outputs
- ✓ Power Supply: 115 Vac / 220 Vac.
- ✓ 248x167x70mm Stainless steel enclosure.
- ✓ Panel Mount.
- ✓ IP54 water proof front.



OPTIONS:

- ✓ 2nd RS232 serial port.
- ✓ Ethernet 10/100M Base T communication port.
- ✓ WIFI communication port.
- ✓ USB 2.0 communication port.
- ✓ Opto-isolated Encoder Input.
- ✓ Time and date.
- ✓ 24 Vdc Power supply.
- ✓ PS2 / PC Keyboard Input.
- ✓ Up to IP65 water proof.
- ✓ Opto-isolated analogical Output: 0-20mA, 4-20mA, 0-5Vdc, 0-10Vdc.

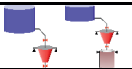
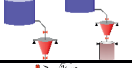
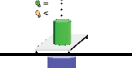
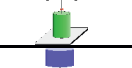

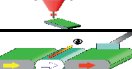

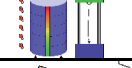
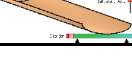

ADDITIONAL FEATURES and OPTIONS (DSP):

- ✓ Load Cell Input with a *high speed* 24 bits A/D Sigma-Delta converter.
- ✓ Option: 2nd RS485 serial port.
- ✓ Option: internal USB 2.0 communication port.



Multifunction weight indicator DW-PA.

OPERATING MODES:

Reference	Description	
	FillerAdd	Additive filling, bagging: 1 product up to 3 rates, unload and alarms.
	FillerAddAdv	Additive filling, bagging: 1 product up to 2 rates, unload, alarms and 10 selectable programs.
	FillerMan	Manual filling, bagging: indicator for Defect – Ok – Excess weight.
	FillerSub	Dispensing filler (lost-in-weight): 1 product up to 3 rates, reload and alarms.
	FillerAso	Associative filling: 1 product up to 3 rates, unload and alarms.
	Bulk	Bulk weighing: up to 2 rates, unload, alarms, ticket.
	Check	Check-weighing: In motion weighing, checks the weighing of a product.
	Quality	Quality control: Batches verification for prepacked product, based on OIML R87 (prepacked products quantity).
	Limits	Limits, alarms, totalizing, integration: up to 4 weighing set point, configurable inputs, variables printing, peaks memories.
	Integra	Beld weighing: Allows to totalize, fix setpoints, flow rate by hour, etc.



DW-PA Rear view

192x96 panel mount multifunction WEIGHING controller

➤ This controller allows to control various industrial weighing processes like Batching, Mixing, Sorting, Filling, Integration, Bulk-Weighing, Over/Under, Weight Tare, etc.

➤ This weighing indicator incorporates a Digital Signal Processor (DSP) as standard. So, it has advanced digital filters (IIR and FIR) that allow to obtain weight data readings even faster and with higher precision.

FEATURES:

- ✓ Load Cell Input with a *high speed* 24 bits A/D Sigma-Delta converter.
- ✓ Backlight LCD Display of 2x16 alphanumeric characters and 14 Led indicators.
- ✓ 2 Opto-isolated Serial Ports: RS232C and RS422 or Rs485.
- ✓ 20 Keys Keyboard to use and program the controller.
- ✓ Time and date.
- ✓ From 4 to 64 Opto-isolated Inputs.
- ✓ From 4 to 192 Relay outputs.
- ✓ Power Supply: 115 Vac / 220 Vac.
- ✓ Dimensions: 192x96x150mm.

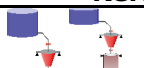
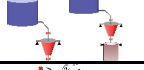

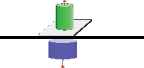
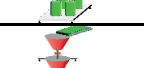
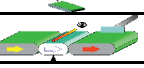

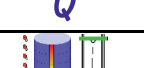
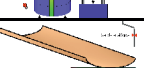
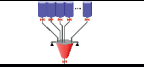
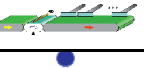




OPTIONS:

- ✓ 2nd RS232 serial port.
- ✓ 2nd RS485 serial port.
- ✓ Ethernet 10/100M Base T communication port.
- ✓ WIFI communication port.
- ✓ Opto-isolated Encoder Input.
- ✓ Internal USB 2.0 communication port.
- ✓ PS2 / PC Keyboard Input.
- ✓ Opto-isolated analogical Output: 0-20mA, 4-20mA, 0-5Vdc, 0-10Vdc.



Multifunction weight indicator DW-XT

OPERATING MODES

Reference	Description
	FillerAdd Additive filling, bagging : 1 product up to 3 rates, unload and alarms.
	FillerAddAdv Additive filling, bagging : 1 product up to 2 rates, unload, alarms and 10 selectable programs.
	FillerMan Manual filling, bagging : indicator for Defect – Ok – Excess weight.
	FillerSub Dispensing filler (lost-in-weight) : 1 product up to 3 rates, reload and alarms.
	FillerAso Associative filling : 1 product up to 3 rates, unload and alarms.
	Bulk Bulk weighing : up to 2 rates, unload, alarms, ticket.
	Check Check-weighing : In motion weighing, checks the weighing of a product.
	CheckAdv Check-weigher : In motion weighing, checks the weight of a product, 200 products in memory, statistic calculation (standard deviation, average, etc.)
	Quality Quality control : Batch verification for prepacked product, based on OIML R87 (prepacked products quantity).
	Limits Limits, alarms, totalising, integration : up to 4 weighing set point, configurable inputs, variables printing, peaks memories.
	Integra Beld weighing : Allows to totalize, fix setpoints, flow rate by hour, etc.
	Batcher Batcher : Up to 80 formulas, Working orders, 99 products up to 3 rates.
	Sorter Sorter : In motion weighing, Sort products by weighing ranges, programming the ranges, 200 products in memory.
	Counter Counting scale : Allows showing the weight of a scale and to convert into number of pieces. Up to 200 products in memory.
	Lorry Weight Bridge : Manage the weight bridges transits, configurable tickets, data entry for trucks id, companies, products, historical records.



DW-XT Rear view

Stainless steel panel mount multifunction WEIGHING controller

- This indicator allows to control various industrial weighing processes like Batching, Mixing, Sorting, Filling, Integration, Bulk-Weighing, Over/Under, Weight Tare, etc..
- This weighing indicator incorporates a Digital Signal Processor (DSP) as standard. So, it has advanced digital filters (IIR and FIR) that allow to obtain weight data readings even faster and with higher precision.

FEATURES:

- ✓ Load Cell Input with a *high speed* 24 bits A/D Sigma-Delta converter.
- ✓ Backlight LCD Display of 4x20 alphanumeric characters and 14 Led indicators.
- ✓ 2 Opto-isolated Serial Ports: RS232C and RS422 or Rs485.
- ✓ 20 Keys Keyboard to use and program the controller.
- ✓ Time and date.
- ✓ From 4 to 64 Opto-isolated Inputs.
- ✓ From 4 to 192 Relay outputs.
- ✓ Power Supply: 115 Vac / 220 Vac.
- ✓ Dimensions: 280x177x82 mm.







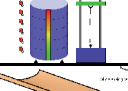
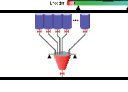







OPTIONS:

- ✓ 2nd RS232 serial port.
- ✓ 2nd RS485 serial port.
- ✓ Ethernet 10/100M Base T communication port.
- ✓ WIFI communication port.
- ✓ Opto-isolated Encoder Input.
- ✓ Internal USB 2.0 communication port.
- ✓ PS2 / PC Keyboard Input.
- ✓ Opto-isolated analogical Output: 0-20mA, 4-20mA, 0-5Vdc, 0-10Vdc.



Multifunction weight indicator DW-CT/P

OPERATING MODES:

Reference		Description
	FillerAdd	Additive filling, bagging: 1 product up to 3 rates, unload and alarms.
	FillerAddAdv	Additive filling, bagging: 1 product up to 2 rates, unload, alarms and 10 selectable programs.
	FillerMan	Manual filling, bagging: indicator for Defect – Ok – Excess weight.
	FillerSub	Dispensing filler (lost-in-weight): 1 product up to 3 rates, reload and alarms.
	FillerAso	Associative filling: 1 product up to 3 rates, unload and alarms.
	Bulk	Bulk weighing: up to 2 rates, unload, alarms, ticket.
	Check	Check-weighing: In motion weighing, checks the weighing of a product.
	CheckAdv	Check-weigher: In motion weighing, checks the weight of a product, 200 products in memory, statistic calculation (standard deviation, average, etc.)
	Quality	Quality control: Batch verification for prepacked product, based on OIML R87 (prepacked products quantity).
	Limits	Limits, alarms, totalising, integration : up to 4 weighing set point, configurable inputs, variables printing, peaks memories.
	Integra	Beld weighing: Allows to totalize, fix setpoints, flow rate by hour, etc.
	Batcher	Batcher: Up to 80 formulas, Working orders, 99 products up to 3 rates.
	Sorter	Sorter: In motion weighing, Sort products by weighing ranges, programming the ranges, 200 products in memory.
	Counter	Counting scale: Allows showing the weight of a scale and to convert into number of pieces. Up to 200 products in memory.
	Lorry	Weight Bridge: Manage the weight bridges transits, configurable tickets, data entry for trucks id, companies, products, historical records.

Multifunction Weighing Indicator with GRAPHIC Display

➤ Specially designed for weighing in motion (compensated gravity), for example on board of ships, but also can do the usual functions of filling, dosing, sorting, belt-weighing, bulk-weighing, check-weighing, weight bridge, weight-tare, etc.

FEATURES:

- ✓ 2 load cell inputs with a 24 bits A/D Sigma-Delta converter and 1200 samples/second.
- ✓ Graphic LCD of 240 x 64 pixels with backlight.
- ✓ 1 Serial port RS232 or RS485.
- ✓ 23 Keys Keyboard to use and program the controller.
- ✓ Time and date.
- ✓ USB 2.0
- ✓ Up to 64 Opto-isolated Inputs.
- ✓ Up to 192 Relay outputs.
- ✓ Up to 32 step motors.
- ✓ Up to 80 triacs (PWM control).
- ✓ Power Supply: 12...24Vdc - 90...264Vac or Internal battery.
- ✓ Waterproof: IP68.
- ✓ Dimensions: 253x130x156mm.

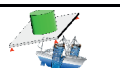
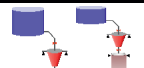
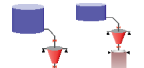



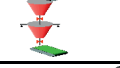
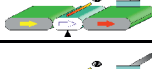
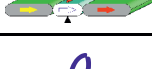
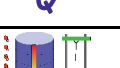
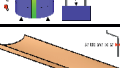
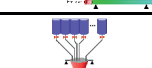
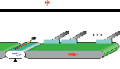



OPTIONS:

- ✓ 2° Serial port RS232 or RS485.
- ✓ Ethernet 10/100M Base T port.
- ✓ WIFI communication port.
- ✓ PS2 / PC Keyboard Input.



*Multifunction weighing
controller DW-SE*

OPERATING MODES:

Reference	Description	
	OnBoard	Weight-Tare-Piece counter-Over Under: Allows to weight in-motion (compensated gravity), memory for 200 products, labeling, weights logger, etc.
	FillerAdd	Additive filling, bagging: 1 product up to 3 rates, unload and alarms.
	FillerAddAdv	Additive filling, bagging: 1 product up to 2 rates, unload, alarms and 10 selectable programs.
	FillerMan	Manual filling, bagging: indicator for Defect – Ok – Excess weight.
	FillerSub	Dispensing filler (lost-in-weight): 1 product up to 3 rates, reload and alarms.
	FillerAso	Associative filling: 1 product up to 3 rates, unload and alarms.
	Bulk	Bulk-weighing: up to 2 rates, unload, alarms, ticket.
	Check	Check-weighing: In motion weighing, checks the weighing of a product.
	CheckAdv	Check-weigher: In motion weighing, checks the weight of a product, 200 products in memory, statistic calculation (standard deviation, average, etc.)
	Quality	Quality control: Batches verification for prepacked product, based on OIML R87 (prepacked products quantity).
	Limits	Limits, alarms, totalising, integration : up to 6 weighing setpoint, configurable inputs, variables printing, peaks memories.
	Integra	Belt-weighing: Allows to totalize, fix setpoints, flow rate by hour, etc.
	Batcher	Batcher-Dosing: Up to 80 formulas, Working orders, 99 products up to 3 rates.
	Sorter	Sorter: In motion weighing, Sort products by weighing ranges, programming the ranges, 200 products in memory.
	Counter	Counting scale: Allows showing the weight of a scale and to convert into number of pieces. Up to 200 products in memory.
	Lorry	Weight Bridge: Manage the weight bridges transits, configurable tickets, data entry for trucks id, companies, products, historical records.



DW-SE Rear view



DW-SE
Front view

Wireless weighing system

COMMON FEATURES

(Handheld, Adquisition module and big display)

- ✓ RF link ISM 868 Mhz
- ✓ Real 100m reach (depending on working environment).
- ▲ Power supply options: 4 NiMH rechargeable batteries or external adapter.

DW-RF/M - HAND HELD

- ✓ Antenna into the hand held box.
- ✓ Graphic display with backlight.
- ✓ 10 keys keyboard.
- ✓ Battery life: 100 hours working continuously.
- ✓ Box dimensions: 215 x 92 x 40mm.
- ▲ Options: Waterproof IP65, Date and time, and fixing belt kit.

DW-RF/S - WEIGHING ADQUISITION MODULE

- ✓ Load Cell Input with a 24 bits A/D Sigma-Delta converter.
- ✓ mV/V adjustable.
- ✓ 15 samples per second.
- ✓ Load cell hibernates when the hand held is switched off.
- ✓ The weighing calibration saved on the DW-RF/S, allowing exchange the handheld.
- ✓ Battery life: 100 hours working continuously.
- ✓ Box dimensions: 77 x 66 x 40mm.
- ✓ Maximum dimensions including connectors, fixations and antenna: 96 x 90 x 80mm.

- ▲ Options: RS232 and RS485 communication ports

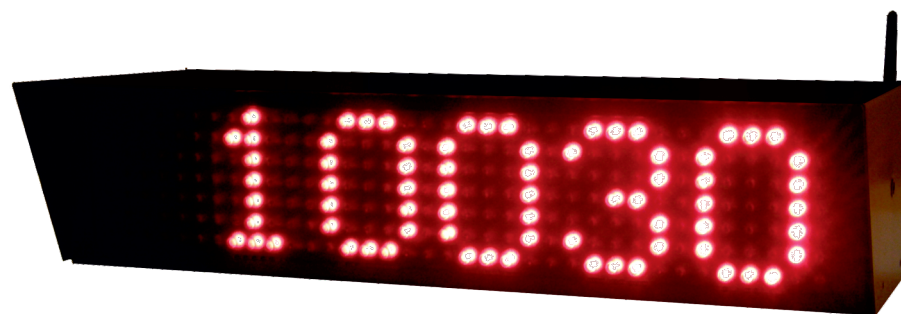
DW-RF/R - 80mm Display

- ✓ Gets the weight throught RS232, RS485 or RF.
- ✓ Power supply 230Vac.

- ▲ Options: RF Communication port.



DW-RF/M



DW-RF/R



DW-RF/S



SC-MI:

Support to mount in track DIN. DW-ST and DW-MI



SC-M2D:

Support to mount in track DIN. DW-M2D



SC-BG:

Support to mount in track DIN. DW-BG and DW-XI



TD-MI:

Transparent door for DW-ST and DW-MI



TD-BG:

Transparent door for DW-BG



TD-XI:

Transparent door for DW-XI



PG-MI:

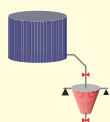
Rubber protector for DW-ST and DW-MI



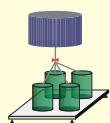
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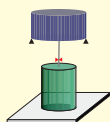
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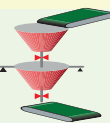
FillerAdd:



28 FillerSub: Main features for the filling additive, lost-in-weight and associative operating modes.



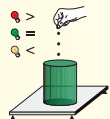
FillerAso:



29 Bulk: Main features for bulk-weighing operating mode (discontinuous totalizer).



Check:

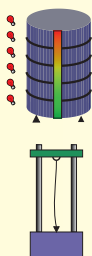


30 CheckAdv: Main features for check-weigher operating mode (Dynamic weighing and manual filling).

FillerMan:



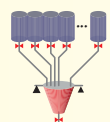
31 Quality: Main features for quality control operating mode. (prepacked products quality)



32 Limits: Main features for the limits operating mode to control limits, alarms, peak values, etc.



33 Integra: Descripción del modo de funcionamiento para una cinta integradora (pesaje dinámico)



34 Batcher: Main features for batcher operating mode.



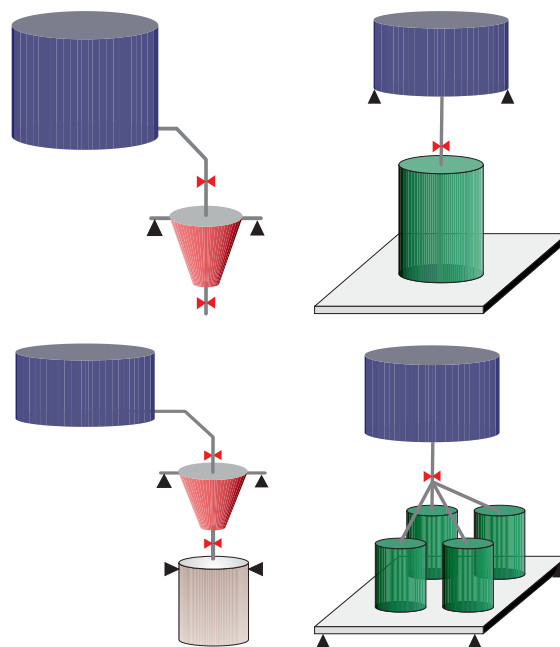
36 Sorter: Main features for sorter operating mode (dynamic weighing).

FILLING / BAGGING Software

➤ This is one of the softwares running on the DW-## multifunction WEIGHT controllers series. According to this software you'll be entitled to realise Filling, Bagging or Mixing of products like: Feed, Paint, Varnish, Drugs, Plastic, Concrete, Asphalt, etc.

➤ When looking for a controller with these features remember how your present expectations may change in the future and how could the considered system be adapted to the new working way.

Software available for the following indicators:



FEATURES:

- ✓ Allows filling till 3 rates (depending on the controller)
- ✓ Provided with opto-isolated digital input to be used as repeater of the front keypad (start, stop, pause, etc.).
- ✓ Power failure control, try to continue with the actual process.
- ✓ Manual or automatic preact weight adjustment.
- ✓ Configuration option protected by PASSWORD.
- ✓ Provided with **DW-REMOTE** WINDOWS™-based software to configure the controller.
- ✓ Allows to transmit data weight to main PC.
- ✓ Allows to connect to the net till 99 controllers to be managed from a main PC.

OPERATING MODES

- ✓ Additive Filling.
- ✓ Lost-in-weight Filling.
- ✓ Associative Filling.

REPORTS:

- ✓ Reports on every production cycle.
- ✓ Reports at the end of every batch weighment.

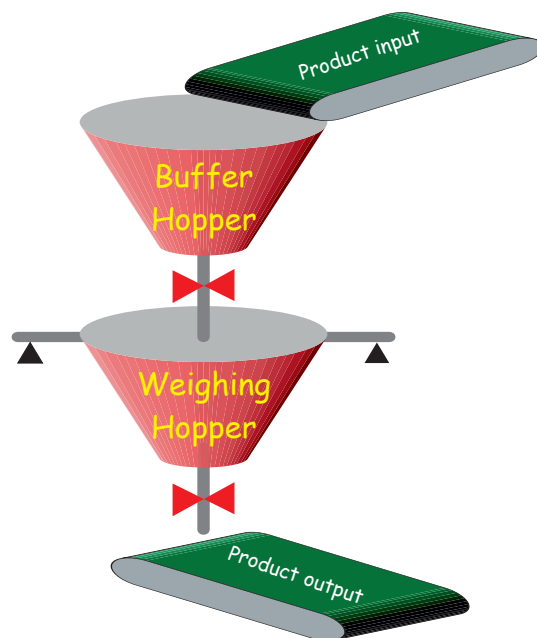
OPTIONS:

- ✓ Allows mixing with 0-10Vdc o 4-20mA input frequency controller.
- ✓ Communication with other devices via RS232, RS485 or Modem.
- ✓ Barcode label printing of the weight.
- ✓ Communication protocol adaptability to different systems.
- ✓ Any kind of modification on customer's demand.

Bulk-Weighing Software (Discontinuous totalizer)

- This is one of the softwares running on the DW-## multifunction WEIGHT controllers series. According to this software you'll be entitled to realise the total weight of a product by cycles (bulk-weighing) on products such as nuts, olives, pellets, etc.
- When looking for a controller with these features remember how your present expectations may change in the future and how could the considered system be adapted to the new working way.

Software available for the following indicators:



FEATURES:

- ✓ Two operating modes: Totalizer and Dosing.
- ✓ Allows filling till 3 rates (Depending on the controller)
- ✓ Provided with opto-isolated digital input to be used as repeater of the front keypad (start , stop, pause, etc.).
- ✓ Power failure control, try to continue with the actual process.
- ✓ Manual or automatic preact weight adjustment.
- ✓ Configuration option protected by PASSWORD.
- ✓ Provided with **DW-REMOTE** WINDOWS™-based software to configure the controller.
- ✓ Allows to transmit data weight to main PC.
- ✓ Allows to connect to the net till 99 controllers to be managed from a main PC.

REPORTS:

- ✓ Reports on every production cycle.
- ✓ Reports at the end of every batch weighment.
- ✓ 3 data fields configurables and printables at the end of batch report.

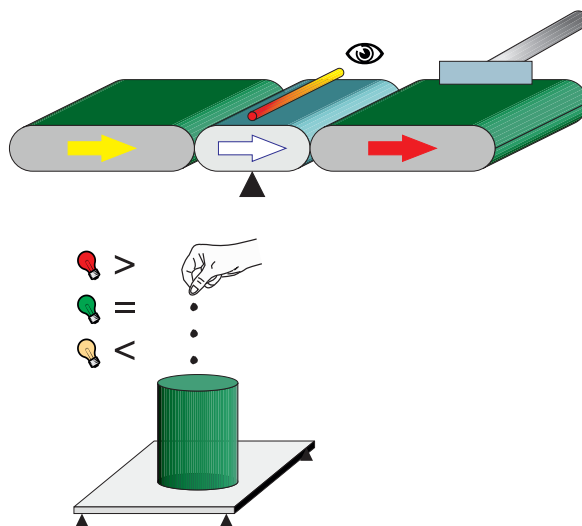
OPTIONS:

- ✓ Allows mixing with 0-10Vdc or 4-20mA input frequency controller.
- ✓ Communication with other devices via RS232, RS485 or Modem.
- ✓ Barcode label printing of the weight.
- ✓ Communication protocol adaptability to different systems.
- ✓ Any kind of modification on customer's demand.

CHECK-WEIGHER Software

- This is one of the softwares running on the DW-## multifunction WEIGHT controllers series. According to this software you'll be entitled to realise the check-weighing of all type of products like: packages, pieces, etc.
- When looking for a controller with these features remember how your present expectations may change in the future and how could the considered system be adapted to the new working way.

Software available for the following indicators:



FEATURES:

- ✓ 3 outputs availables (correct weight, weight default and weight excess)
- ✓ Provided with opto-isolated digital input to be used as repeater of the front keypad (start, stop, pause, etc.).
- ✓ 200 products in memory (only for DW-XT and DW-CT)(CheckAdv version).
- ✓ Configuration options protected by PASSWORD.
- ✓ Provided with **DW-REMOTE** WINDOWS™-based software to configure the controller.
- ✓ Allows to transmit data weight to main PC.
- ✓ Allows to connect to the net till 99 controllers to be managed from a main PC.

OPERATING MODES:

- ✓ OVER / UNDER Control (Traffic light / Manual Filling).
- ✓ Check-weigher with package detection by foto-eye.
- ✓ Check-weigher with package detection by weight threshold.
- ✓ All 3 previously modes allows 200 products in memory (only for DW-XT and DW-CT).

REPORTS:

- ✓ Report on every weight.
- ✓ Report at the end of every weighed batch.

OPTIONS:

- ✓ Communication with other devices via RS232, RS485 or Modem.
- ✓ Barcode label printing of the weight.
- ✓ Communication protocol adaptability to different systems.
- ✓ Any kind of modification on customer's demand.

Quantity of product in prepackages control Software

➤ This is one of the softwares running on the DW-## multifunction WEIGHT controllers series. According to this software, you'll be entitled to perform the verification of a prepackaged product lot, based on RD723-1988 / OIML R87 (Quantity of product in prepackages).

➤ When looking for a controller with these features remember how your present expectations may change in the future and how could the considered system be adapted to the new working way.

Software available for the following indicators:



FEATURES:

- ✓ 3 outputs availables (correct weight, weight default and weight excess).
- ✓ Allows the automatic package-to-control request.
- ✓ Provided with opto-isolated digital input to be used as repeater of the front keypad (start, stop, pause, etc.).
- ✓ Configuration option protected by PASSWORD.
- ✓ Allows to transmit data weight to main PC.
- ✓ Allows to connect to the net till 99 controllers to be managed from a main PC.

REPORTS:

- ✓ Detailed report of the processed batch.

OPERATING MODES

- ✓ Check-weigher with package detection by foto-eye.
- ✓ Check-weigher with package detection by weight threshold.

OPTIONS:

- ✓ Communication with other devices via RS232, RS485 or Modem.
- ✓ Barcode label printing of the weight.
- ✓ Communication protocol adaptability to different systems.
- ✓ Any kind of modification on customer's demand.

>> Control weight results <<

Batch data.

```
~~~~~
Sampling start..: 1/03/2008 8:25
End of sampling.: 1/03/2008 9:37
Article.....: Olive
Batch number....: 080201
Nominal weight..: 1000.0 g
Tare.....: 0.0 g
Total of packages: 20
~~~~~
```

Selected samples:

```
~~~~~
1000.0 g 1000.0 g 1000.0 g 999.0 g 999.0 g
999.0 g 999.0 g 1000.5 g 1000.5 g 1000.5 g
1000.5 g 1000.5 g 1001.0 g 1001.0 g 1001.0 g
1000.5 g 1000.0 g 1000.0 g 1000.0 g 1000.0 g
~~~~~
```

Control of average samples:

```
~~~~~
1000.0 g 1000.0 g 1000.0 g 999.0 g 999.0 g
999.0 g 999.0 g 1000.5 g 1000.5 g 1000.5 g
1000.5 g 1000.5 g 1001.0 g 1001.0 g 1001.0 g
1000.5 g 1000.0 g 1000.0 g 1000.0 g 1000.0 g
~~~~~
```

>> Analysis results <<

```
Maximum weight..: 1001.0 g
Minimum weight..: 999.0 g
```

Default weight samples > (2 * TNE)

OK

```
Maximum error allowed.....: -15.0 g
Computed error.....: -1.0 g
Default weight samples: 0
~~~~~
```

Acceptance criteria 1

Control of weight content

```
~~~~~
Too many default weight samples: OK
Default weight samples: 0
~~~~~
```

Acceptance criteria 2

Control of batch weight content

```
~~~~~
Mean >= a Typical deviation: OK
Mean value...: 1000.1 g
Deviation...: 0.661
~~~~~
```

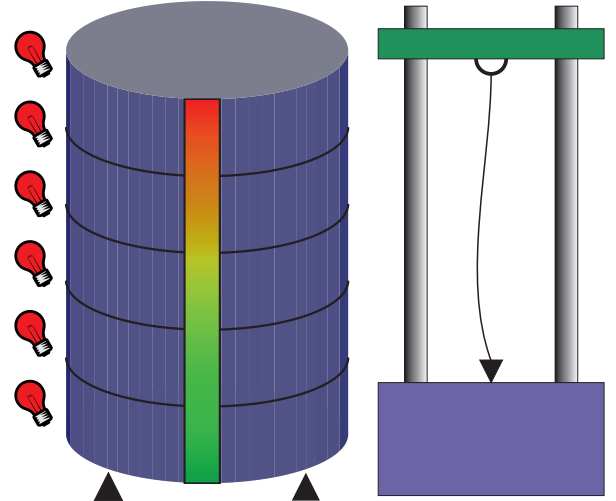
BATCH ACCEPTED.

Example of a controlled batch report

Software for Limits / Alarms / Integration / Totalizer

- This is one of the softwares running on the DW-## multifunction WEIGHT controllers series. According to this software you'll be entitled to realise the check-weighing of all type of products like: packages, pieces, etc.
- When looking for a controller with these features remember how your present expectations may change in the future and how could the considered system be adapted to the new working way.

Software available for the following indicators:



FEATURES:

- ✓ Allow to obtain the peak values: Maximum, Minimum, Peak-Peak.
- ✓ 4 optoisolated digital inputs that you can assign to anyone of the 29 functions available.
- ✓ The PRINT function (19) can print 15 different reports.
- ✓ 4 digital outputs (Relays) that you can assign to anyone of the 15 functions available.
- ✓ Allows to configure 4 setpoints in 5 different ways of operation, and 3 types of reset.
- ✓ Totalizer function to accumulate operations by: time (time integration), stable weight or external signal.
- ✓ The configuration options are protected with PASSWORD.
- ✓ This indicator can be configured by the program **DW-REMOTE** for WINDOWS™.
- ✓ Allows to transmit all the internal variables to a remote computer.
- ✓ Allows the connection in network of up to 99 indicators that can be managed from a central computer.

REPORTS:

- ✓ Print of all the variables of the indicator, individually or in block.
- ✓ Print of all the configuration parameters of the indicator.

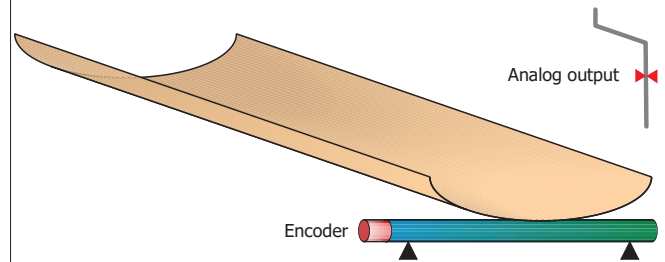
OPTIONS:

- ✓ RS232, RS485 or Modem communication with other devices.
- ✓ Barcode label printing of the variables.
- ✓ We can adapt the communication protocol to other manufacturers.
- ✓ We can modify the operating under demand.

BELT WEIGHER Software

- This is one of the softwares running on the DW-## multifunction WEIGHT controllers series. According to this software you'll be entitled to obtain the weight flow rate and total product moved through a belt, such as ground, ice, nuts, olives, and in general all type of bulk products.
- When looking for a controller with these features remember how your present expectations may change in the future and how could the considered system be adapted to the new working way.

Software available for the following indicators:



FEATURES:

- ✓ Allows to configure 3 setpoints in 5 different ways of operation, and 3 types of reset.
- ✓ Belt running output available.
- ✓ One optoisolated digital inputs configurable.
- ✓ Optionally available encoder input to perform more accurate calculations.
- ✓ Provided with a counter of operating hours and tons processed.
- ✓ The configuration options are protected with PASSWORD.
- ✓ This indicator can be configured by the program **DW-REMOTE** for WINDOWS™.
- ✓ Allows to send the working variables through RS232, RS433, RS485 and Analog output 0-20mA, 4-20mA, 0-5Vdc, 0-10Vdc.
- ✓ Allows the connection in network of up to 99 indicators that can be managed from a central computer.

OPERATING MODES:

- ✓ Flow meter (kg/h o t/h)
- ✓ Totalizer (kg o t)
- ✓ Belt travel meter (m)
- ✓ Belt speed (m/s)

REPORTS:

- ✓ Totalizer weight report.
- ✓ Report for the grand total.

OPTIONS:

- ✓ Communication with other devices via RS232, RS485 or Ethernet.
- ✓ Communication protocol adaptability to different systems.
- ✓ Any kind of modification on customer's demand.

DOSING Software

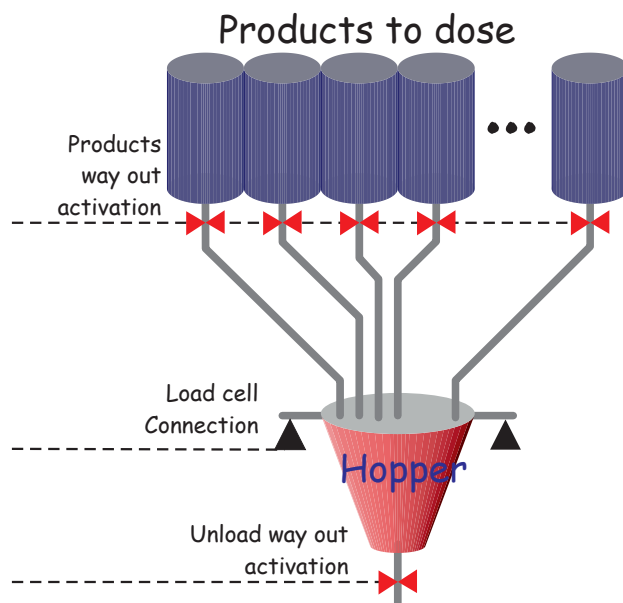
➤ This is one of the operating programs for the WEIGHT multifunction indicator DW-XT. With this formulation program, dosing control of products such as Animal feed, Paintings, Varnishes, Medicines, Plastics, Concrete, Asphalt, etc., is easy to do.

➤ When looking for a controller with these features remember how your present expectations may change in the future and how could the considered system be adapted to the new working way.

MAIN FEATURES:

- ✓ Allows to tune the dosage with up to 3 flows.
- ✓ Provided with optoisolated digital inputs that can be linked to indicator's keys (beginning of cycle, stop, pause, etc.).
- ✓ Allows to carry out listings of the results of the dosages.
- ✓ This indicator can be easily configured by the program **DW-REMOTE** for WINDOWS™.
- ✓ Allows to transmit the dosage results to a remote computer.
- ✓ Allows direct connection with most popular PLCs making unnecessary to use its own input/output digital connections.
- ✓ Allows the network connection of up to 99 indicators that can be managed from a central computer.
- ✓ There is a second software version that allows the user to program complex batch processes like: Temporizations, partial discharges, wait for events, conditional jumps, etc.
- ✓ Allows to tune the dosage in a ramp controlling a frequency converter with input 0-10Vdc or 4-20mA.
- ✓ It can control all the formulation process and its results with the program **DOSIFICA-PC** for WINDOWS™.
- ✓ We can adapt the indicator's operating to specific customer's needs.

Software available for the following indicators:



Batcher

FEATURES:

- ✓ No. of products: from 4 up to 192 (depending on the version)
- ✓ No. of flows: up to 3
- ✓ No. of formules: 80
- ✓ No. of steps for each formule: 24
- ✓ No. of positions in work order: 10
- ✓ Formulation types: kg or %
- ✓ The supporting options available are:
 - ▲ Add
 - ▲ Delete
 - ▲ Queries
 - ▲ Reports
 - ▲ Edit
 - ▲ Go to...
- ✓ Allows manual dosing of products.
- ✓ Management of not-dosing products.
- ✓ Automatic or Manual preact weight adjustment.
- ✓ Output control signals:
 - ▲ Unload
 - ▲ Alarms
 - ▲ Last cycle
 - ▲ Manual product
 - ▲ Indicator on Standby
 - ▲ Flows
- ✓ Input control signals:
 - ▲ Stop / Pause
 - ▲ Start / Continue
 - ▲ Unload
- ✓ Voltage control failure, allowing the dosage to continue.
- ✓ The configuration options are protected with PASSWORD.
- ✓ Configurable parameters:
 - ▲ Number of flows
 - ▲ Stabilization time
 - ▲ Residual weight
 - ▲ Unload time
 - ▲ Automatic/Manual preact weight adjustment
 - ▲ Reengaging
 - ▲ Lack of material time
 - ▲ Alarms
 - ▲ etc.

REPORTS:

- ✓ Listing of the parameters of the products.
- ✓ Brief and detailed list of formules.
- ✓ Results of each operation cycle.
- ✓ Manually dosing products.

OPTIONS:

- ✓ RS232, RS485 or Modem communication with other devices.
- ✓ Barcode label printing of the variables.
- ✓ We can adapt the communication protocol to other manufacturers.
- ✓ We can modify the operating under demand.

Sorting Software

➤ This is one of the operating programs of the multifunction DW-XT WEIGHT indicator. With this program you can sort and classify all type of products by levels of weight, such as: Fruit, chickens, fish, meat... Thus, any kind of product that should be grouped depending on their weight.

➤ When looking for a controller with these features remember how your present expectations may change in the future and how could the considered system be adapted to the new working way.

MAIN FEATURES:

- ✓ Allows to sort up to 24 strips of weight.
- ✓ Provided with optoisolated digital inputs operating as indicator's keys repeater (beginning of cycle, stop, pause, etc.), with a photo eye input.
- ✓ Allows to carry out listings of the results of the sortings.
- ✓ This indicator can be easily configured by the program **DW-REMOTE** for WINDOWS™.
- ✓ Allows to transmit the sorting results to a remote computer.
- ✓ Allows direct connection with most popular PLCs making unnecessary to use its own input/output digital connections.
- ✓ Allows the connection in network of up to 99 indicators that can be managed from a central computer.
- ✓ Allows the assignation of an unloading station as a broom, to place the products that don't fit in any of the programmed weight levels.

Software available for the following indicators:



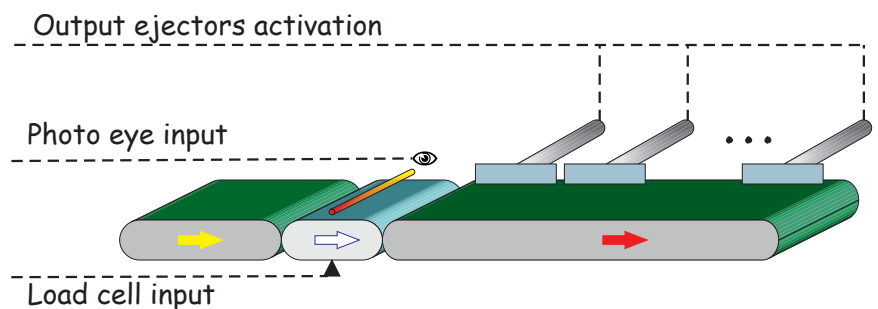
DW-XT



DW-CT/P



DW-SE



FEATURES:

- ✓ No. of unloading stations: from 2 up to 192 (depending of the version).
- ✓ No. of sorting programs: 50.
- ✓ Display and setting to zero of grand total, totals and partials of the working order.
- ✓ Carry out and/or modify sorting programs available.
- ✓ Configuration options for the sorting programs:
 - ▲ Delete
 - ▲ Edit
 - ▲ Queries
 - ▲ Reports
 - ▲ Go to...
- ✓ Two types of sorting:
 - ▲ Normal (by weight)
 - ▲ Equal (one piece in every station without weight control)
- ✓ Control digital outputs:
 - ▲ Unload stations
 - ▲ Reject station
- ✓ Control digital inputs:
 - ▲ Stop / Pause
 - ▲ Start / Continue
 - ▲ Photocell
- ✓ Test of each station's eject.
- ✓ The configuration options are protected with PASSWORD.
- ✓ Configuration parameters:
 - ▲ Number of stations
 - ▲ Expelling time
 - ▲ Distance between stations
 - ▲ Reject station.

REPORTS:

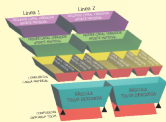
- ✓ Detailed report of each order.
- ✓ Detailed report of each order by fractions of 100 g.
- ✓ Sorting programs.
- ✓ Distance between stations.

OPTIONS:

- ✓ RS232, RS485 or Modem communication with other devices.
- ✓ Barcode label printing of the variables.
- ✓ We can adapt the communication protocol to other manufacturers.
- ✓ Possibility to carry out modifications in the sorting equipment, to adapt it to any process.
- ✓ Possibility of connection to central computer.
- ✓ Possibility of statistics calculations such as variances, standard deviation, anovas, etc, allowing the user to analyze the tendencies of the different orders (this feature is not included in the standard sorting system).
- ✓ Whole formulation process and its results can be controlled by the program **CLASIFICA-PC** for WINDOWS.
- ✓ We can adapt the indicator's operating to specific customer's needs.

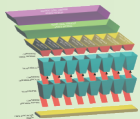
www.pesalia.com

WEIGHING EQUIPMENTS



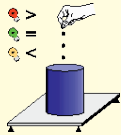
40 DW-BI:

Main features of DW-BI weighing equipment, filling / multi-scale bagging system.



42 DW-MH:

Main features of DW-MH weighing equipment, multi head, multi-scale weighing system.



44 Manual Filling:

Production control for manual filling equipments.



48 DC-SUN:

Standalone weighing system.



49 DW-TK:

Truck on-board weighing system.



50 DW-CS:

Suitcase scale for public use.



51 DC-BIG:

Big alphanumeric led displays.



52 DW-ETH:

Device Server (RS232 / RS485 Converter to ETHERNET).

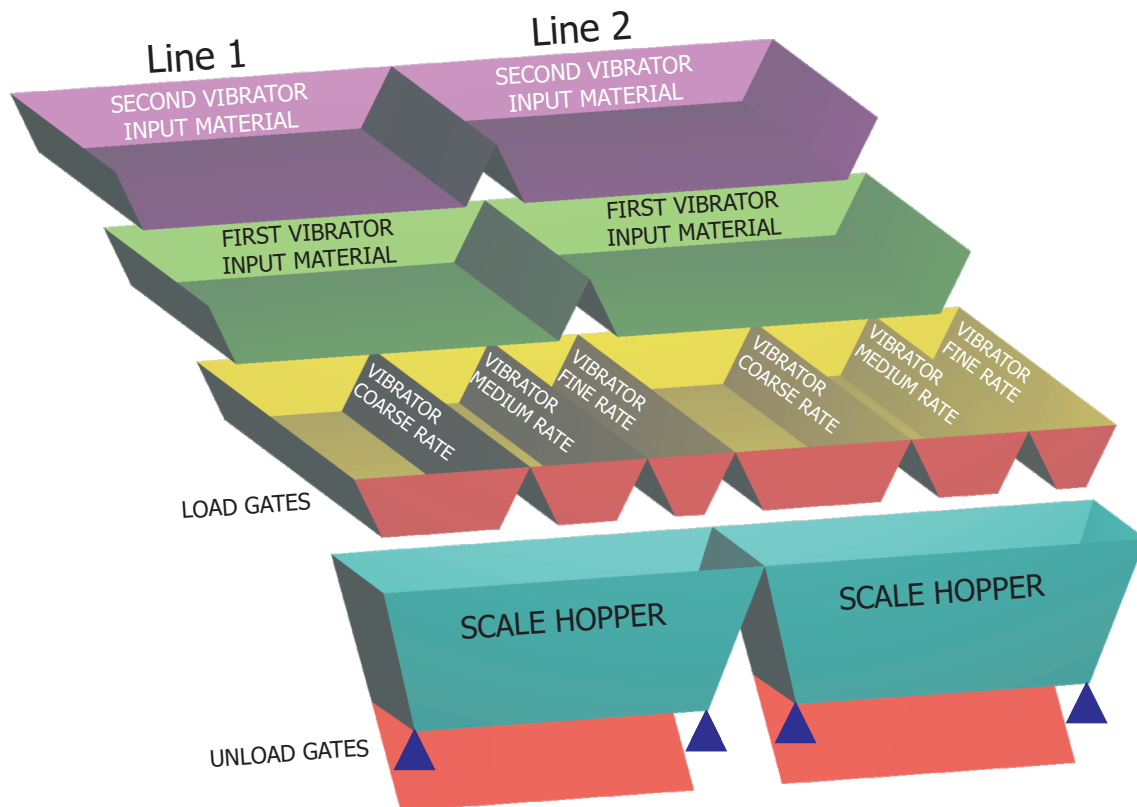


54 DC-RFL:

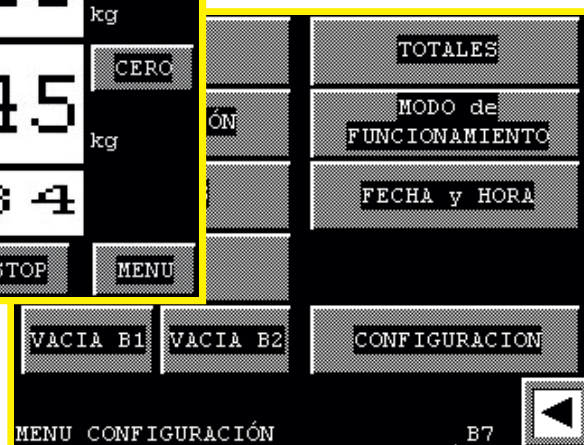
Radio modem.

Filler system / multi-scale bagging

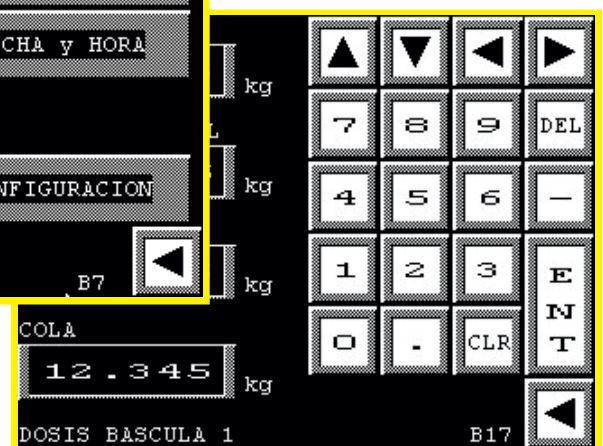
- This system allows to fill one product in 2 scales, up to 3 rates per scale, with vibrator control. It can also be controlled by a packing machine with which it can communicate.
- This system is perfect in applications when you need high production and precision, for example packing potatoes, carrots, coal, salads, seafood, etc.



Main screen



User Menu



Weight setup

MAIN FEATURES:

- ✓ Setup and configuration through touch screen.
- ✓ Allows to fine-tune weight measurements until 3 rates.
- ✓ % of vibration configurable from the touch screen.
- ✓ Manual or Automatic preact weight adjustment.
- ✓ Available opto-isolated digital inputs to:
 - Unload request.
 - Indication for full transportation channels by photocells.
- ✓ Test for relays, vibrators, etc.
- ✓ The configuration options are protected with a configurable PASSWORD.
- ✓ Working hours and number of performed cycles are protected with a configurable PASSWORD.

FEATURES:

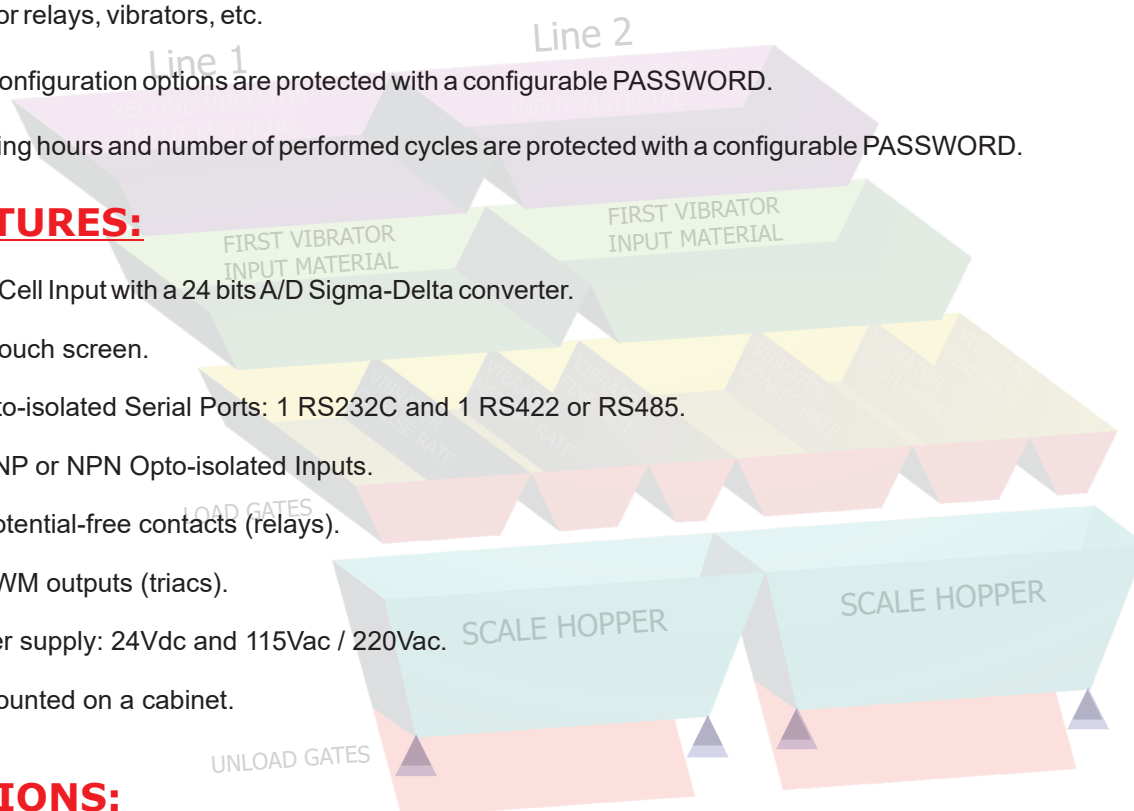
- ✓ Load Cell Input with a 24 bits A/D Sigma-Delta converter.
- ✓ 5.6" touch screen.
- ✓ 2 Opto-isolated Serial Ports: 1 RS232C and 1 RS422 or RS485.
- ✓ 12 PNP or NPN Opto-isolated Inputs.
- ✓ 12 Potential-free contacts (relays).
- ✓ 10 PWM outputs (triacs).
- ✓ Power supply: 24Vdc and 115Vac / 220Vac.
- ✓ All mounted on a cabinet.

OPTIONS:

- ✓ Opto-isolated analogical Output: 0-20mA, 4-20mA, 0-5Vdc, 0-10Vdc.

OPERATING MODES:

- ✓ Packing mode (synchronized with a packing machine).
- ✓ Semi-automatic mode (hopper unload by external signal).



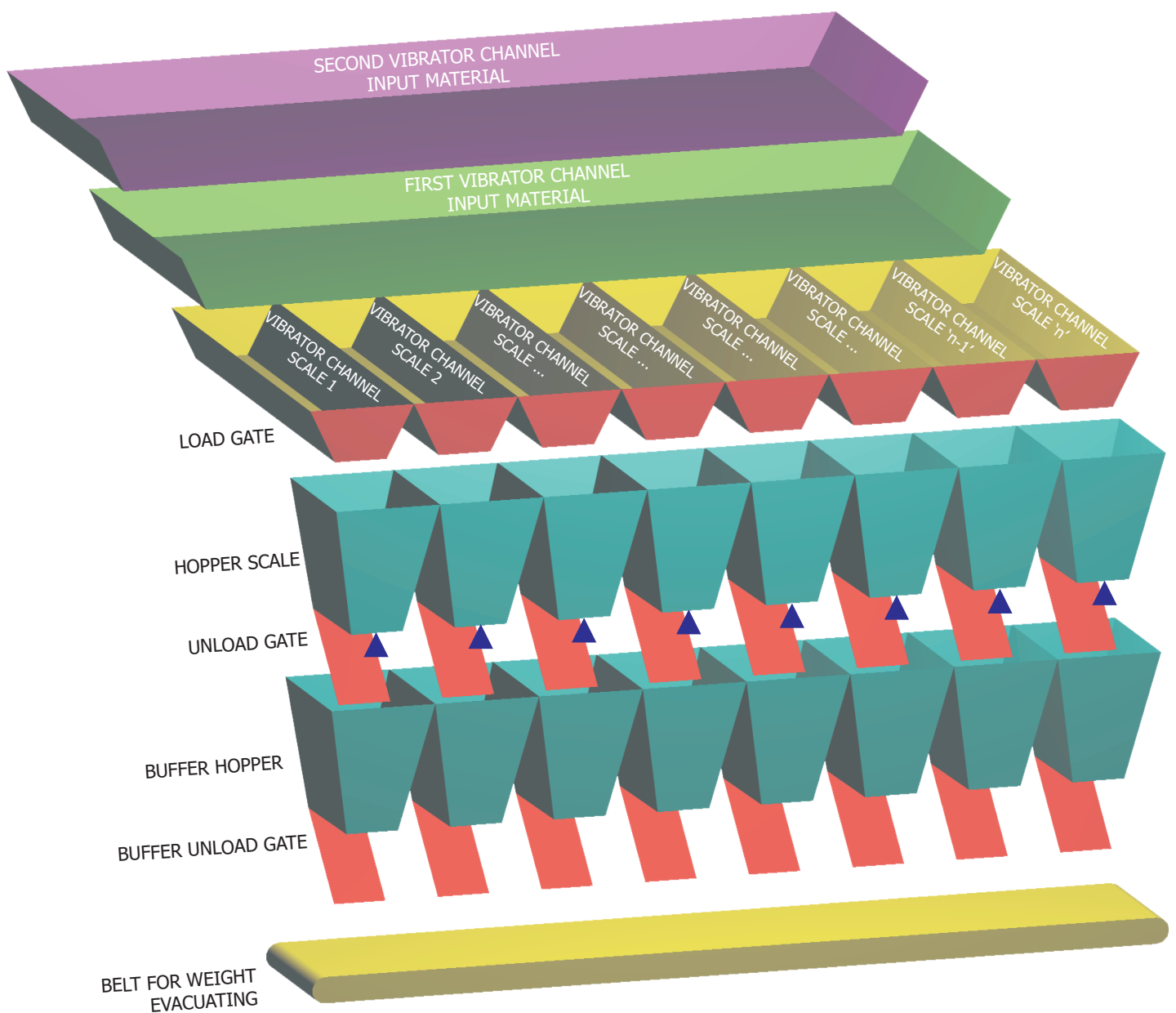
Multihead Weighing System

➤ This system performs a partial weight of a product to achieve a nominal weight with great accuracy and speed. It can also be controlled by a packing machine with which it can communicate.

➤ This system is ideal for applications requiring high production and maximum precision such as, for example, for bagging snacks, cereals, cookies, cakes, candy, coffee, fruit, vegetables, salad, cheese, precooked food, frozen food, seafood, etc.

MAIN FEATURES:

- Weight calculation algorithm extremely optimized and precise.
- Vibrators channels controlled by Pulse Width Modulation (PWM), automatically adjustable to achieve a perfect product flow.
- Hoppers opening and closing optimized for maximum fill rate.
- Versions for 8, 10, 12, 14 and 16 scales.



MAIN FEATURES:

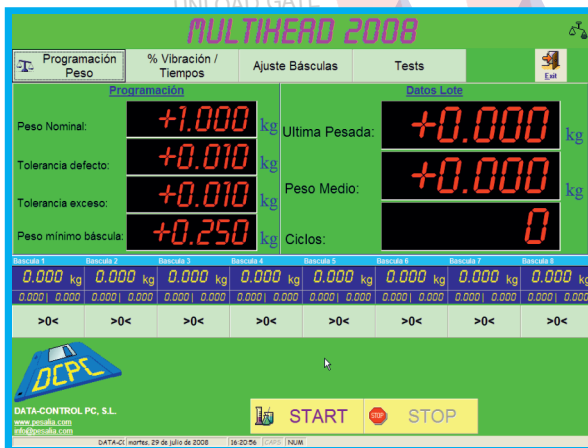
- ✓ Setup through a touch screen.
- ✓ Until 200 programs in memory.
- ✓ Adjustment of preact weight to optimize the filling.
- ✓ % of vibration for each vibrating channel configurable through touch screen.
- ✓ Provided with opto-isolated digital inputs for photo-eyes to indicate full transportation channels.
- ✓ Test for relays, vibrators, etc.
- ✓ Configuration options protected by a configurable PASSWORD.
- ✓ Working hours and number of performed cycles protected by a configurable PASSWORD.

OPERATING MODES:

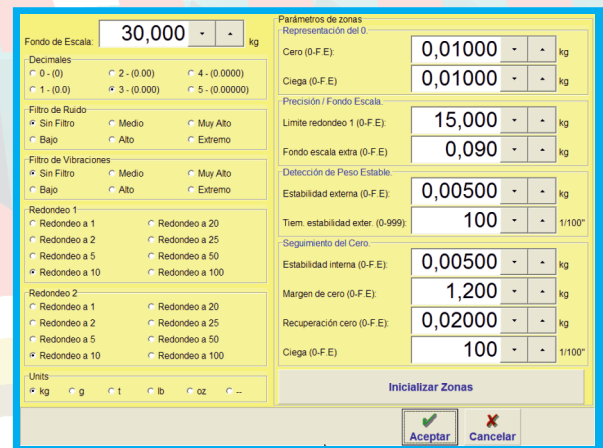
- ✓ Uniproduct.
- ✓ Biproduct (to mix two products, for example for salads).

FEATURES:

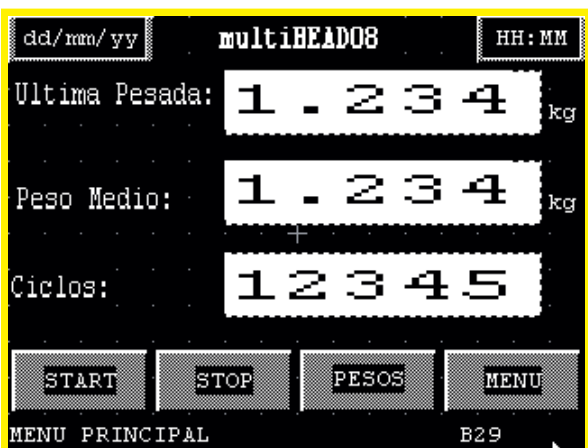
- ✓ Load Cell Input with a 24 bits A/D Sigma-Delta converter.
- ✓ Opto-isolated analogical Output: 0-20mA, 4-20mA, 0-5Vdc, 0-10Vdc (optional)
- ✓ 15" touch screen PC or 5.6" touch screen (depending on version)
- ✓ 2 Opto-isolated Serial Ports: 1 RS232C and 1 RS422 or RS485.
- ✓ from 4 to 64 PNP or NPN Opto-isolated Inputs.
- ✓ from 12 to 192 Potential-free Relay outputs
- ✓ from 5 to 80 PWM outputs (triacs) - (depending on version).
- ✓ Power supply: 24Vdc and 115Vac / 220Vac.
- ✓ All mounted on a cabinet.



Main screen



Weight setup



Main screen



Weight setup

Production management for manual packaging PC Software

1. Product configuration with the following parameters:
 - Product code
 - Product description
 - Tolerance +
 - Tolerance –
 - Nominal weight
 - PreCorrect (below the proper weight), flashing traffic light
 - PostCorrect (over the proper weight), flashing traffic light
 - Recipient tare (for known value)
2. Start of production batch.
3. Finish of actual production batch.
4. Configuration of workers.
5. Historical records.
6. Data shown on screen:
 - General data:
 - Actual batch
 - Total hours worked in that batch
 - Supplier
 - Overall total of produced kg
 - Batch starting date
 - Mean of kg per worker
 - Batch starting time
 - For each worker:
 - Name of the worker
 - Total produced
 - Performed cycles
 - Batch total time of production
 - total production per scale, total time of production, etc.
7. Data export:

The program allows the historical record exportation to an ASCII file (possible to open with EXCEL, for instance)
8. About the operational:
 - 8.1. From standby mode.
 - 8.2. Press batch start.

Some data are requested:

 - Supplier (informative data)
 - Number of batch
 - Date / start time ((informative data)
 - Product
 - Observations ((informative data)
 - etc
 - 8.3. The equipments shift to RUN mode, workers start to work.
 - 8.4. At this time, the screen is showing the cummulative totals and, simultaneously, it is possible to check the historical records previously performed.
 - 8.5. Once finished the product/batch.
 - 8.6. Select End Batch
 - The program saves the totals
 - Stop the equipments
 - The totals of equipments will reset at the beginning of next batch.
 - 8.7. The program remains waiting for the next batch.
- Notes:
 - Program for Windows XP
 - Database engine mySQL

Production management for manual packaging PC Software

Monitorización de producción															
				Fin Lote				Operarios				Histórico			
Lote: 20101220175713				Fecha Inicio: 20/12/2010				Horas Trabajadas: 1d 1:50:34							
Proveedor:				Hora Inicio: 17:57:15				kg Totales: 0				Medio: 0			

Operario					Operario					Operario				
Operario	Tiempo	total kg	ciclos		Operario	Tiempo	total kg	ciclos		Operario	Tiempo	total kg	ciclos	
1	1d 1:50:34	0	0											
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
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59														
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61														
62														
63														
64														
65														
66														
67														
68														
69														
70														
71														
72														
73														
74														
75														
76	Báscula de salida	1d 1:50:34	0	0										
77														
78														
79														
80														

Históricos.

Fecha Inicial: 01/01/2009 Fecha Final:

Sin Agrupar
por Proveedor
por Operario
por Partida

	Partida	Cantidad	Unidad	Fecha In	Fecha F	Salidas	Entradas	Diferencia
11/12/09	16:53:20	11/12/09	16:55:48	0	2	jhfq		
11/12/09	16:53:20	11/12/09	16:55:48	0	2	jhfq		
11/12/09	16:53:20	11/12/09	16:55:48	0	2	jhfq		

martes, 21 de diciembre de 2010

Main screen of the program

Activación / Desactivación Básculas		Activación / Desactivación Básculas		Activación / Desactivación Básculas		Básculas Integradoras	
Nombre Operario	Nombre Operario	Nombre Operario	Nombre Operario	Nombre Operario	Nombre Operario	Nombre Operario	Nombre Operario
<input checked="" type="checkbox"/> Báscula 1	<input type="checkbox"/> Báscula 26	<input type="checkbox"/> Báscula 51	<input checked="" type="checkbox"/> Integrad. 1	<input type="checkbox"/> Integrad. 2	<input type="checkbox"/> Integrad. 3	<input type="checkbox"/> Integrad. 4	<input type="checkbox"/> Integrad. 5
<input type="checkbox"/> Báscula 2	<input type="checkbox"/> Báscula 27	<input type="checkbox"/> Báscula 52	<input type="checkbox"/> Báscula de salida				
<input type="checkbox"/> Báscula 3	<input type="checkbox"/> Báscula 28	<input type="checkbox"/> Báscula 53					
<input type="checkbox"/> Báscula 4	<input type="checkbox"/> Báscula 29	<input type="checkbox"/> Báscula 54					
<input type="checkbox"/> Báscula 5	<input type="checkbox"/> Báscula 30	<input type="checkbox"/> Báscula 55					
<input type="checkbox"/> Báscula 6	<input type="checkbox"/> Báscula 31	<input type="checkbox"/> Báscula 56					
<input type="checkbox"/> Báscula 7	<input type="checkbox"/> Báscula 32	<input type="checkbox"/> Báscula 57					
<input type="checkbox"/> Báscula 8	<input type="checkbox"/> Báscula 33	<input type="checkbox"/> Báscula 58					
<input type="checkbox"/> Báscula 9	<input type="checkbox"/> Báscula 34	<input type="checkbox"/> Báscula 59					
<input type="checkbox"/> Báscula 10	<input type="checkbox"/> Báscula 35	<input type="checkbox"/> Báscula 60					
<input type="checkbox"/> Báscula 11	<input type="checkbox"/> Báscula 36	<input type="checkbox"/> Báscula 61					
<input type="checkbox"/> Báscula 12	<input type="checkbox"/> Báscula 37	<input type="checkbox"/> Báscula 62					
<input type="checkbox"/> Báscula 13	<input type="checkbox"/> Báscula 38	<input type="checkbox"/> Báscula 63					
<input type="checkbox"/> Báscula 14	<input type="checkbox"/> Báscula 39	<input type="checkbox"/> Báscula 64					
<input type="checkbox"/> Báscula 15	<input type="checkbox"/> Báscula 40	<input type="checkbox"/> Báscula 65					
<input type="checkbox"/> Báscula 16	<input type="checkbox"/> Báscula 41	<input type="checkbox"/> Báscula 66					
<input type="checkbox"/> Báscula 17	<input type="checkbox"/> Báscula 42	<input type="checkbox"/> Báscula 67					
<input type="checkbox"/> Báscula 18	<input type="checkbox"/> Báscula 43	<input type="checkbox"/> Báscula 68					
<input type="checkbox"/> Báscula 19	<input type="checkbox"/> Báscula 44	<input type="checkbox"/> Báscula 69					
<input type="checkbox"/> Báscula 20	<input type="checkbox"/> Báscula 45	<input type="checkbox"/> Báscula 70					
<input type="checkbox"/> Báscula 21	<input type="checkbox"/> Báscula 46	<input type="checkbox"/> Báscula 71					
<input type="checkbox"/> Báscula 22	<input type="checkbox"/> Báscula 47	<input type="checkbox"/> Báscula 72					
<input type="checkbox"/> Báscula 23	<input type="checkbox"/> Báscula 48	<input type="checkbox"/> Báscula 73					
<input type="checkbox"/> Báscula 24	<input type="checkbox"/> Báscula 49	<input type="checkbox"/> Báscula 74					
<input type="checkbox"/> Báscula 25	<input type="checkbox"/> Báscula 50	<input type="checkbox"/> Báscula 75					

Screen of worker assignation to each scale

Listado de Consumos.

Históricos.

Fecha Inicial: Fecha Final:

Sin Agrupar	por Proveedor	por Operario	por Partida						
Fecha Consumo	Hora Consumo	Fecha Salida	Hora Salida	Cantidad	Unidad Medida	Operario	Báscula	Nota	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		4	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		5	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		6	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		7	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		8	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		9	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		10	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		11	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		13	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		14	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		15	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		16	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		17	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		18	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		19	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		20	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		21	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		22	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		23	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		24	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		25	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		26	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		27	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		28	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		29	20091211165318	
11/12/09	16:53:20	11/12/09	16:55:48	0	2 jbfkg		30	20091211165318	
							1	20091214165937	
							1	20091214170136	
							1	20091214171239	
							1	20091214171300	
							1	20101026113129	

Nombre Operario

☐ Báscula 51
☐ Báscula 52
☐ Báscula 53
☐ Báscula 54
☐ Báscula 55
☐ Báscula 56

Nombre Operario

☒ Integrad. 1
☐ Integrad. 2
☐ Integrad. 3
☐ Integrad. 4
☐ Integrad. 5

Básculas Integradora

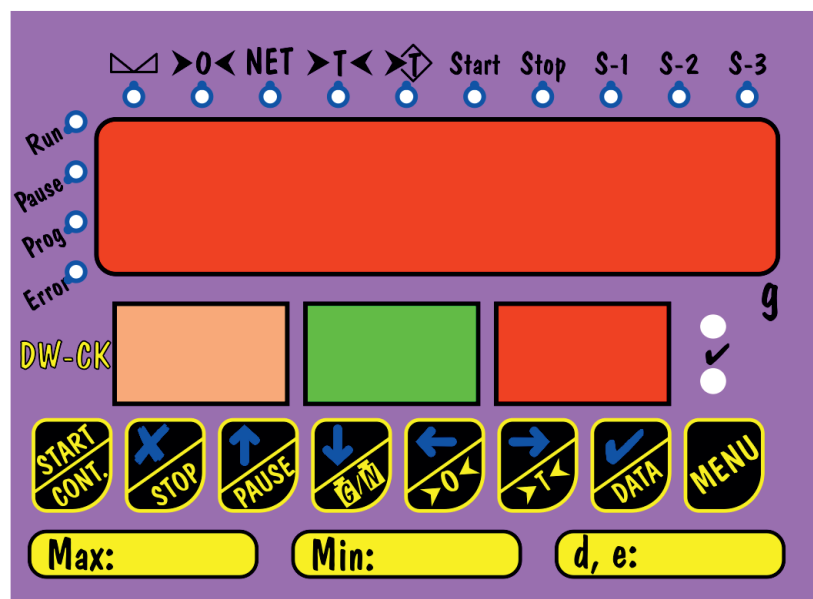
Screen: detail of batches

Manual Filling

Production management for manual packaging Weight controller | operating mode

1. Configure working values (locally or from PC).
 2. Change mode equipment to RUN (locally or from PC).
 3. Place a box on the scale.
 4. Predetermined tare or pulse TARE or work with gross weight.
 5. Indication of weight state.
 6. Once the weight is correct and a button to validate the weight has been pressed, there is an indication to remove the box (1).
 7. At the moment of weight validation, it is registered to be sent to the PC.
 8. Go to step 3.
- Main functions of the indicator:
 - Manual / Automatic operating mode.
 - Weight validation by contactless button (it allows an unlimited life for the key).

(1) At point 6, it is possible to validate the weight by detecting stable weight instead of pressing a button or a pedal.



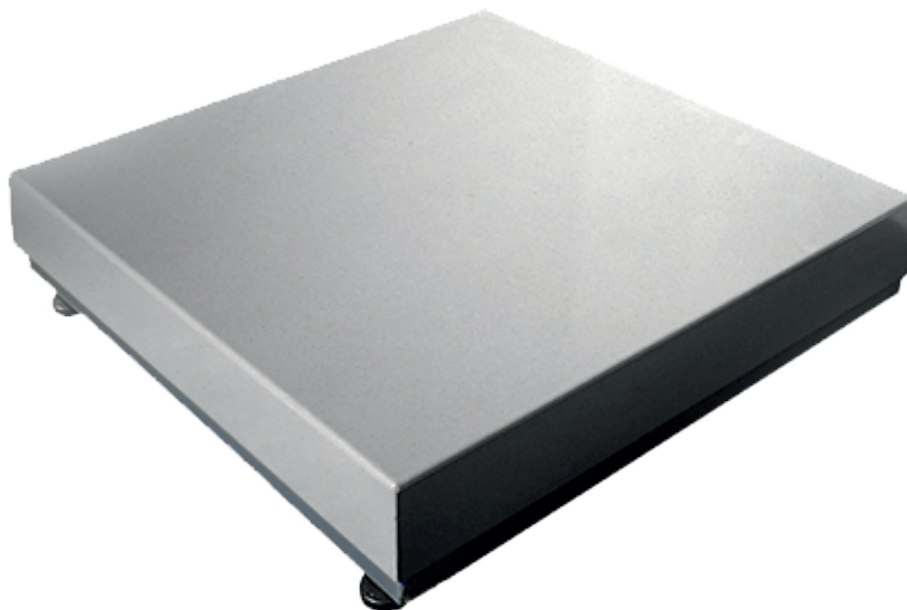
Production management for manual packaging Platforms

Option 1:

1. 300x300mm platform (other dimensions available on request).
2. Carbon steel structure, galvanised.
3. Plate of stainless steel AISI 304.
4. Aluminium load cell Ip65.
5. Display of weight and traffic light fixed to the platform.
6. Main supply: 220Vac.
7. RS232 and RS485 communication ports.
8. Possibility of connection to a printer.
9. Non-verifiable.

Option 2:

1. 300x300mm platform (other dimensions available on request).
2. Structure of stainless steel AISI304.
3. Plate of stainless steel AISI 304.
4. Aluminium load cell Ip67.
5. Display of weight and traffic light fixed to the platform.
6. Main supply: 220Vac.
7. RS232 and RS485 communication ports.
8. Possibility of connection to a printer.
9. Verifiable.





Standalone weighing system

- Self-powered system that allows to weight without mains power supply
- Also allows to transmit the weighing data remotely.

FEATURES:

✓ Allowed power supply inputs:

- ▲ Solar Pannel
- ▲ Battery
- ▲ Main supply 125 ... 220 Vac

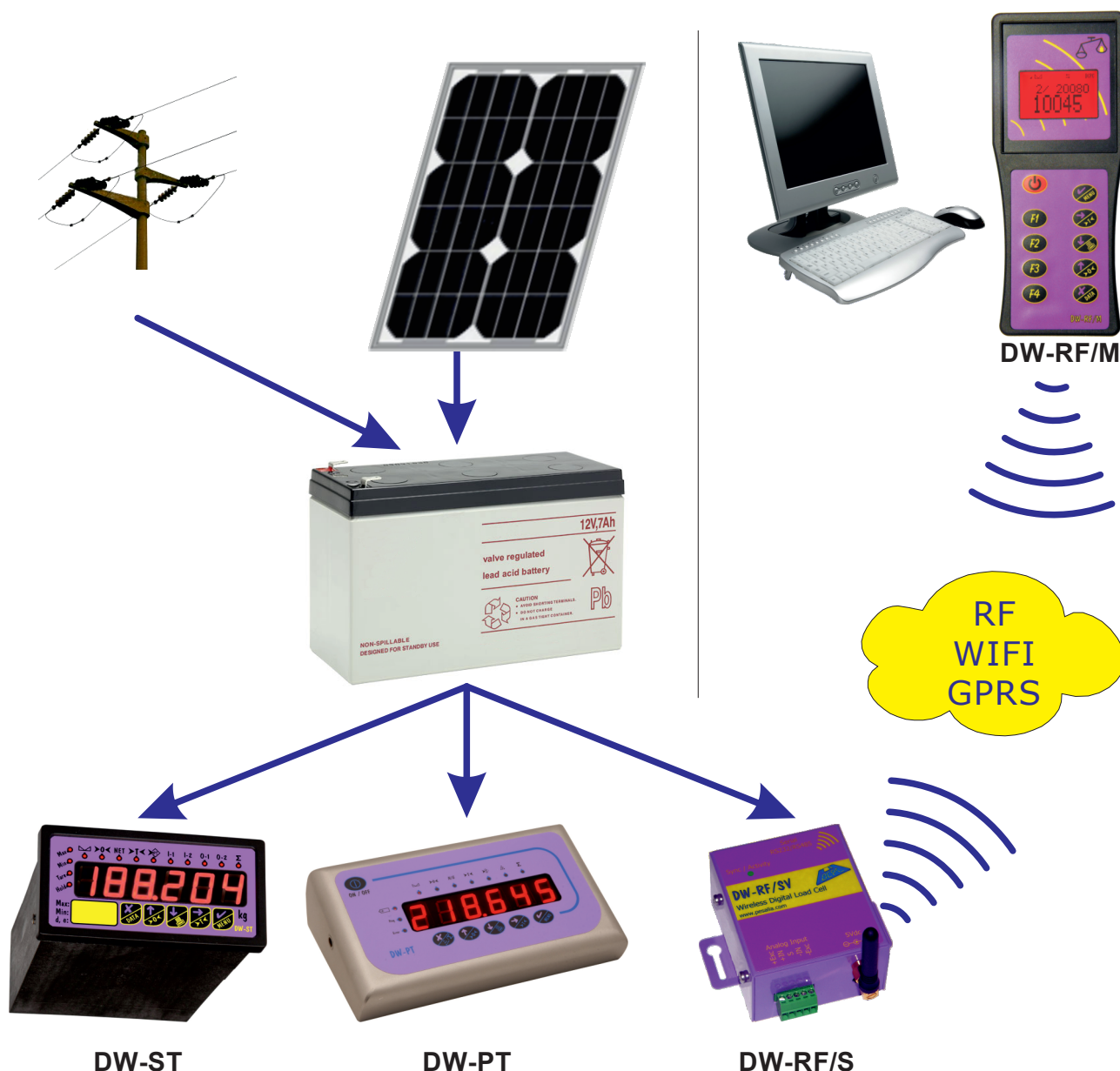
✓ Communication ports:

- ▲ RF (869MHz)
- ▲ WIFI
- ▲ GPRS

- ✓ Includes mast to mount the solar pannel and/or antenna.
- ✓ Weighing indicator and battery mounted on cabinet.

MAIN ADVANTAGES:

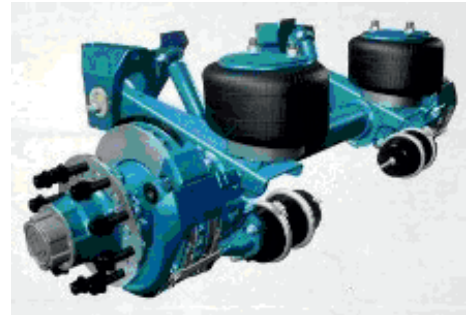
- ✓ Avoid installation of electrical wires from the weighing system to the PC, indicator or big display.
- ✓ Allows to change the weighing scale location without the need to rebuild the installation.
- ✓ Allows to power a weight bridge more than 100 hours in the total absence of sunlight.



Weighing Kit for vehicles with pneumatic suspension

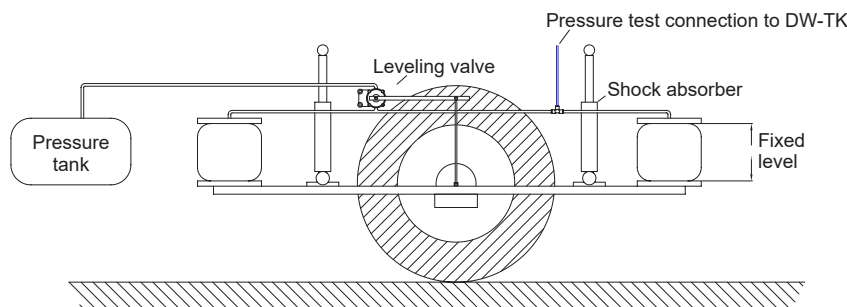
OPERATION:

- ✓ Using sensors, the pressure of the pneumatic suspension system is accurately measured.
- ✓ With this system, any change on the air pressure is electronically detected, and results in an indication -in kg- in the equipment installed at the cabin.
- ✓ After performing an easy calibration, it is possible to reach accurate measurements better than $\pm 0.5\%$ of total weight, depending on the type of trailer.



INSTALLATION:

- ✓ This Kit contains all the necessary elements to perform the installation (tubes, tube fittings, boxes, screws, cables, sensors and weighing indicator); thus, this installation can be performed in three hours. The installation manual is easily understood, with pictures and drawings that allows a fast installation and start up.



HANDLING:

- ✓ The equipment installed inside the cabin is easy handling, since with two keys it is possible to know the weight of the tractor, the trailer, the net weight, the stowage and the total. The weight indication divisions are of 10 kg, and it is possible to know how to be handled without reading a big manual.



MAIN FEATURES:

- ✓ Power supply: +24 Vdc
- ✓ Working temperature: -25 ... +80 °C
- ✓ Protection: IP65
- ✓ Division: 10 kg
- ✓ Precision: 200 kg
- ✓ Display: LCD

This kit can be easily installed on all brands and models with pneumatic suspension.



Unattended luggage weigher

In recent years, all airlines are penalizing overweight luggage between 5 and 12 € per kg exceeded (depending on the company).

VERSIONS:

- ✓ With mechanical coin selector
- ✓ With electronical coin selector
- ✓ With electronical bill acceptor
- ✓ Painted steel column
- ✓ Painted stainless steel column
- ✓ Monitor for advertising

FEATURES:

- ✓ Luggage weigher scale for public use
- ✓ Capacity: 300kg / 100g division
- ✓ Single point platform
- ✓ Painted steel structure
- ✓ IP65 load cell with overload protection
- ✓ Works with 1 € coin acceptor integrated in the column
- ✓ Metallic carrying coins
- ✓ Column with key
- ✓ Includes information table about every company
- ✓ Includes operating instructions in multiple languages
- ✓ 7 Segment Display 6 Digit 20mm High luminosity
- ✓ Internal keyboard for programming and monitoring
- ✓ Power supply at 220 Vac
- ✓ Colours: Red Bordeaux Structure and Black plate
- ✓ Dimensions: 576 x 500 x 1280mm
- ✓ Scale Dimensions: 400 x 500mm

OPTIONS:

- ✓ Works with \$1 bill
- ✓ Ask for other coin/note acceptors
- ✓ Other power supplies.
- ✓ Custom Colours
- ✓ Vinyl advertising
- ✓ Padlock

SERVICE PROPOSAL:

- ✓ Scale in stock and shared revenue
- ✓ Sale and maintenance contract



DW-CS Luggage weigher

Luminous Alphanumeric Display

► We put at your disposal a selection of dot matrix alphanumeric displays designed for their application in a wide variety of situations, typical clock, advertising announcements, industrial display applications, etc.

► The main attraction of these programmable displays are: their great brightness, even exposed to sunlight, a wide range of colors and the possibility of adapting to the physical dimensions required.

FREE WINDOWS™ software for configuration and programming.

MAIN FEATURES:

- ✓ Programmable led matrix alphanumeric display.
- ✓ Led colour:
 - ▲ White ▲ Blue
 - ▲ Amber ▲ Red
 - ▲ Green
- ✓ Display format:
 - ▲ from 1 to 8 lines.
 - ▲ 6, 9, 12, 15 and 21 characters per line.
 - ▲ Character height: 80, 160 or 240mm.
 - ▲ 1 or 2 sides.
- ✓ Messages:
 - ▲ Store capacity: 128 Messages of 128 characters each one.
 - ▲ 5 Typefaces.
 - ▲ 14 Visual effects.
 - ▲ Text justification: Left, Center and Right.
 - ▲ Programmable movement speed.
- ✓ Chronometer / Countdown chronometer.
- ✓ Watch / Calendar with 9 date formats and 5 hour formats.
- ✓ Thermometer: Celsius and Fahrenheit.
- ✓ Data retention time: more than 10 years.
- ✓ Compatible with most of the weight indicators of the market.
- ✓ This equipment can be configured with the program **LedsPlay Remote** for WINDOWS™.



OPTIONS:

- ✓ Displays adaptable to other communication protocols.
- ✓ Adaptable to the customer's specific needs, after some modifications.



4 lines x 20 characters display
(24 in condensed mode)

DC-ETH Device Server

Share, Manage and Monitor devices remotely via an ETHERNET NETWORK

DC-ETH Device Server FEATURES

- ✓ Allows network connection of virtually any device in just minutes.
- ✓ Access, monitor and control devices via Ethernet.
- ✓ Quickly and easily configurable via HTTP, DHCP, Telnet, serial or with the "DeviceInstaller™" utility.
- ✓ Replaces dedicated PC or modem lines with fast and reliable local networks.
- ✓ Supports RS232 and RS485 communications.
- ✓ Small size to be installed almost everywhere.

With DC-ETH, in few minutes you can add any device to an Ethernet network. This server is the fastest, simplest and cheapest way to get the advantages of remote management of devices that are currently not connected to an Ethernet Network.



Extending the serial communications worldwide

The device connection system to networks is transparent to the connected device.

The system is completely transparent in both hardware and software to the connected device.

Using a method called "serial tunneling", the DC-ETH packages data in frames and sends them via ethernet. The "Serial tunneling" works in two ways:

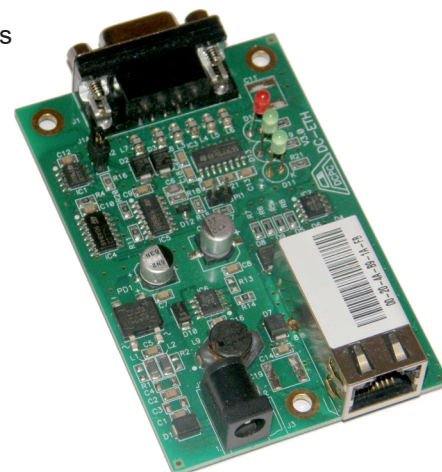
- 1.- Using "Com Port Redirector™" software, for applications under Windows based on "COMx" ports.
- 2.- Using two DC-ETH configured to talk to each other through the network, creating a virtual serial connection from anywhere in the world.

It has a Web server that allows the user to access and configure the DC-ETH from any web browser.

Easy to configure and use

DC-ETH can be configured via serial port, or remotely via web browser. The configuration "DeviceInstaller™" software under Windows simplify the configuration tasks such as:

- IP assignment and other specific network addresses.
- Upload custom Web pages.
- the device configuration via Web.
- Allows 'pings' and search for devices connected to the network.
- See data files of the devices.
- Allows the firmware update.



DC-ETH OEM

MAIN FEATURES

Serial interface

Interface: RS232 or RS485 (2-wire)

Connector: Female DCE DB9 serial port.

Bauds: from 300 baud to 230 Kbaud, selected by software.

Characters: 7 or 8 data bits.

Parity: odd, even, none.

Stop bits: 1 or 2

Flow control

Hardware: CTS / RTS

Software: XON / XOFF

Network interface

Interface: Ethernet 10Base-T / 100Base-TX port.

Ethernet port speed: 10 / 100 / Auto software selectable.

Transmission: Half / Full / Auto duplex software selectable.

Connector: RJ45.

Standards: ARP, UDP, TCP, ICMP, Telnet, TFTP, AutoIP, DHCP, HTTP, SNMP TCP, UDP, and Telnet, TFTP.

LED indicators

Power supply (Red)

Half Duplex activity (Amber)

Full Duplex activity (Green)

Link status 10Mbps (Amber),

Link status 100Mbps (Green)

Serial port Rx (Green), Serial port Tx (Green)

Power supply

Input supply: 9-30 Vdc or 9-24 Vac

Power consumption: 1.5W maximum.

Enclosure

Dimensions: 89 x 61 x 23 mm

Waterproof: IP30

Software

- 'DeviceInstaller' software configuration under Windows® 98 / ME / NT / 2000 / XP

- 'Com Port Redirector' software.

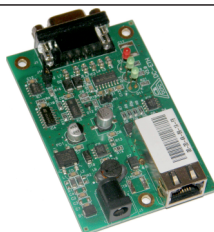
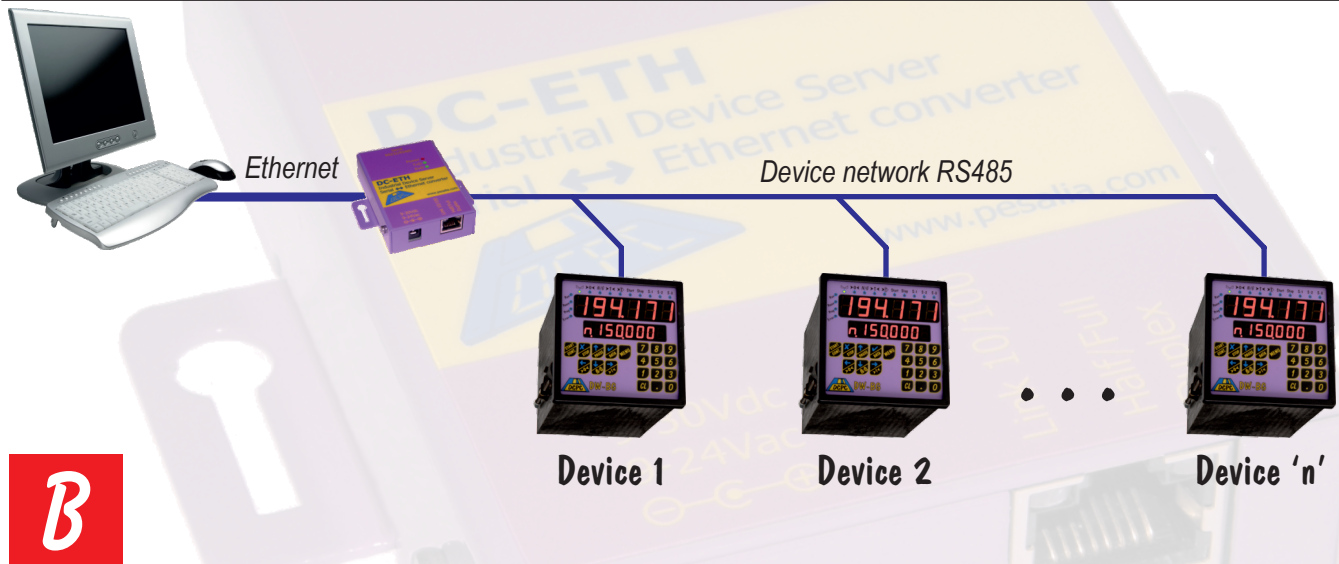
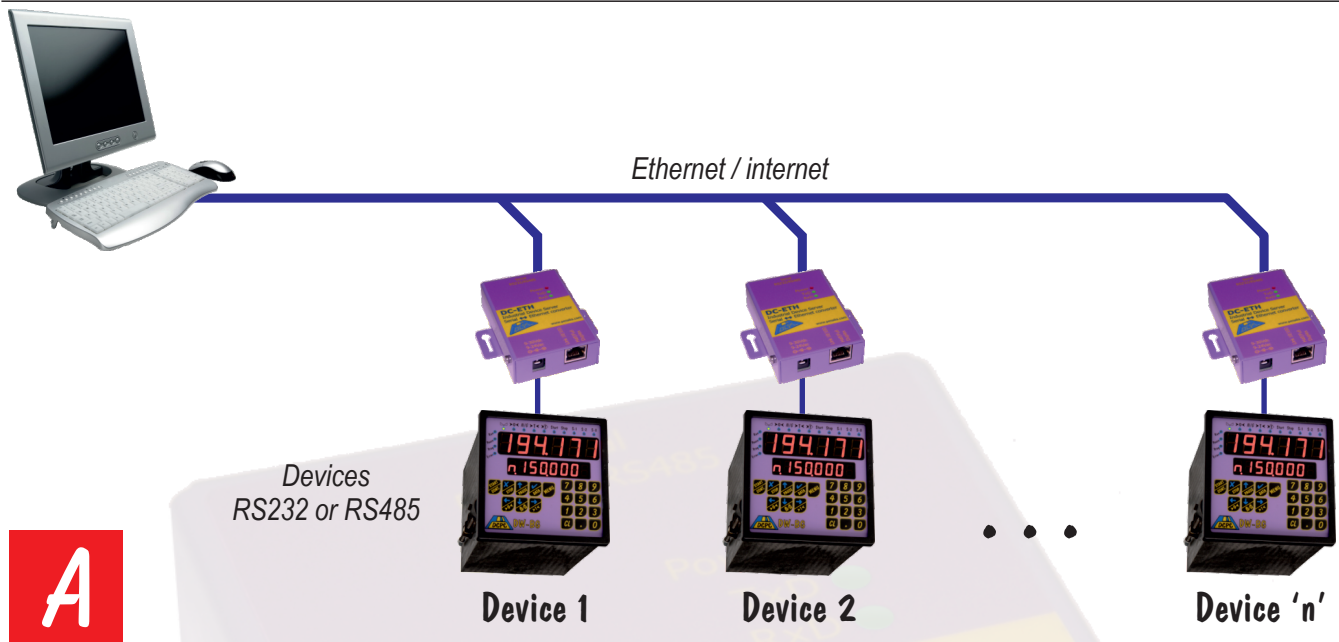
Environmental

Working temperature: 5° to 50° C

Storage temperature: -40° to 66° C

DC-ETH Device Server

Access modes to devices with RS232 or RS485



DC-RFL Radio modem

Transmission range according to topography



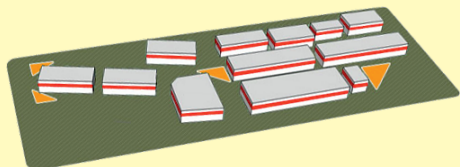
Up to 150m

High attenuation areas:
Basements, Mines, Tunnels
High mountains
Metal buildings...



Up to 500m

High density rate of buildings:
City center
Inside buildings
Great obstacles...



Up to 2000m

Medium density rate of buildings:
Industrial parks
Residential areas
Small obstacles...



Up to 60km

Low density rate of buildings:
Outdoor facilities
Isolated buildings
Direct view among antennas...



DC-RFL Radio modem

Main advantages

- ✓ Long range (up to 35 km without directional antennas, 60 km with directional antennas)
- ✓ Transparent to different communication protocols.
- ✓ Direct connexion to devices with USB, RS232 or RS485 interface.
- ✓ Use of free bands (ISM) without need to request permits.
- ✓ Ideal for IoT applications.
- ✓ Highly useful for in mobile applications.
- ✓ Wide range of power.

DC-RFL Radio modem

Main Features

DATA CHANNEL

Work modes:	Half-Duplex / Simplex
Data interface:	RS232, RS485 and USB
Data format:	Configurable parity, data bits, stop bits
Interface speed:	Configurable between 1200-115200 bauds
Protocol:	Configurable

RADIO CHANNEL

Speed:	Auto-ajustable
Frequency:	868/915MHz
Emission power:	100mW (maximum)
Sensitivity:	-148 dBm
Impedance:	50 Ohms
Antenna connector:	Base SMA Female

POWER SUPPLY

Power supply:	9...30Vdc or 5Vdc USB powered
Connector:	Jack
Protection:	Resettable fuse
Maximum consumption:	200mW

ENCLOSURE

Dimensions:	118x72x43mm
Weight:	120g
Waterproof:	IP54
Fixing system:	DIN and OMEGA rail mount

ENVIRONMENT

Temperature:	-30...60°C
Humidity:	95% at 40°C (non-condensing)

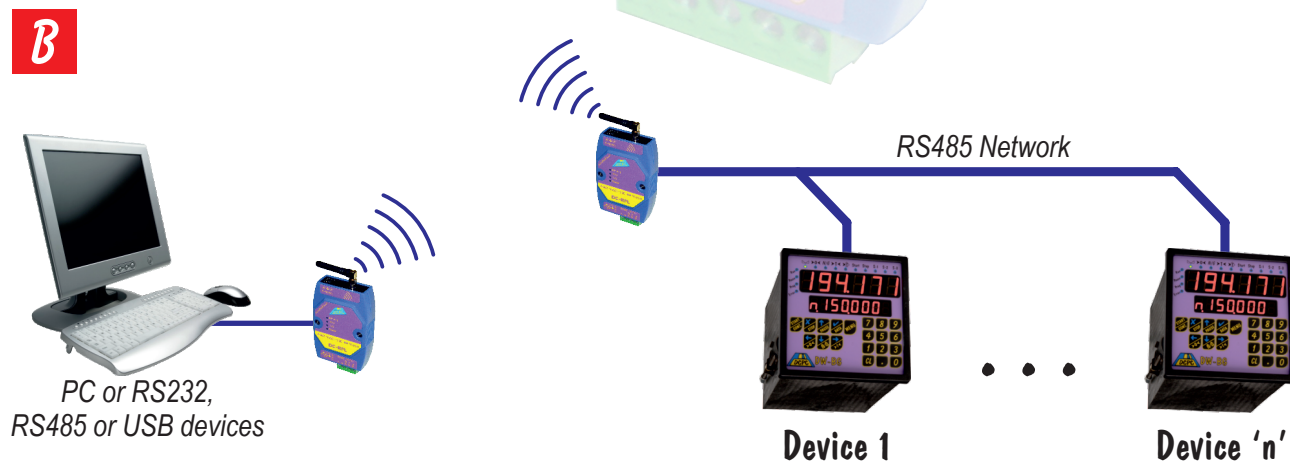
Applications

- Automated metering
- Building and home automation
- Wireless alarms and security systems
- Industrial supervision and control systems (SCADA)
- Long range irrigation systems

E/S modules / Accessories

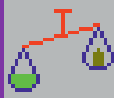
- Optoisolated digital inputs
- Digital outputs (relays)
- PWM control outputs (Triacs)
- Control of stepper motors
- Weight acquisition
- Antennas, cable extensions and masts
- Solar panels

Available architectures



www.pesalia.com

58	easyWEIGHT:	Software for WINDOWS to manage weights to inputs and outputs on stores, configurable tickets, weights log, batch control, PARADOX database.
59	LorryPC:	Weight bridge software for WINDOWS, multi enterprise, manages and stores all truck movements in a company, MySQL engine database.
61	easyFILLER:	WINDOWS Software to improve the indicators with the Filling operation modes, to manage and monitor configurations, cycles log, configurable tickets, batches, PARADOX database.
62	DosificaPC:	Dosing software for WINDOWS, manages articles, formulas and produced cycles log, PARADOX database.
44	Manual Filling:	Production control software for WINDOWS to complement the weighing indicators with Manual Filling process, to manage configurations, historical reports, tickets, batches, PARADOX database.
	easyDinamic:	Software for WINDOWS to complement the weighing indicators with dynamic weighing process, to manage configurations, historical reports, tickets, batches, PARADOX database.



- This program is designed to give more power to DW-### indicators in weight-tare mode.
- Allows you to manage an unlimited number of customers, suppliers, articles and all weight movements made and also can get accumulated, detailed reports, etc.
- In addition, it can configure the format of the tickets, group movements by lot number, assign references, etc.

MAIN FEATURES:

- ✓ No. of scales: maximum 32
- ✓ No. of articles: Unlimited
- ✓ No. of customers: Unlimited
- ✓ No. of suppliers: Unlimited
- ✓ No. of users: Unlimited (allows access levels)
- ✓ Available managing options:
 - ▲ Add
 - ▲ Delete
 - ▲ Edit
 - ▲ Queries
 - ▲ Reports
 - ▲ Find
 - ▲ Sort
 - ▲ Fix a range

REPORTS:

- ✓ Preview of the reports on the screen.
- ✓ Products
- ✓ Suppliers
- ✓ Customers
- ✓ Movements report
- ✓ Stock adjustment report
- ✓ Delivery note for each weight

OPTIONS:

- ✓ Connection with third party weighing indicators.
- ✓ RSxxx Modem or Ethernet or Wifi communication with other devices.
- ✓ Communication with other PC.
- ✓ Codes input through a barcode reader.
- ✓ Barcode label printing of the performed cycles by a labelling machine.
- ✓ We can modify the operating on demand.

The screenshot shows the EasyWEIGHT software interface. Labels point to various parts of the screen:

- Weight control buttons:** Points to the top navigation bar with icons for Clientes, Proveedores, and Artículos.
- Active User:** Points to the 'Usuario: Administrador' text.
- Active indicator Information:** Points to the 'Báscula pesaje de camiones' text.
- Operating mode options:** Points to the 'Tipo de operación' section with 'Venta/Expedición' and 'Compra/Recepción' options.
- Function about the weight:** Points to the 'Finalizar Lote' button.
- Database direct access:** Points to the 'Artículo' section with search fields.
- Scale status:** Points to the 'Bruto', 'Tara', and 'Neto' weight displays.
- Weight Values:** Points to the 'Artículo' search results.
- Selected article information:** Points to the 'Buscar Código' field.
- Selected customer or supplier information:** Points to the 'Cliente' section with search fields.
- Miscellaneous information:** Points to the 'Movimientos' table.
- Last registered weights:** Points to the 'Lote' column in the 'Movimientos' table.

Lote	Pesada	Fecha	Hora	Tara	Neto	Bruto
43	1	10/08/06	11:48:33	0	257,2	257,2
44	1	10/08/06	11:59:41	0	257,2	257,2
45	1	10/08/06	12:00:32	0	257,2	257,2
46	1	10/08/06	13:15:08	333,4	221,8	555,2
47	1	10/08/06	13:19:47	333,4	222,2	555,6
48	1	10/08/06	13:21:39	333,4	222,2	555,6
49	1	10/08/06	13:37:11	333,4	222,4	555,8
50	1	10/08/06	13:38:04	333,4	222,4	555,8
51	1	10/08/06	15:49:31	0	0	0
52	1	10/08/06	14:06:18	0	1108,4	1108,4

- Lorry weighing systems are really useful since they can manage without errors all the materials that enter and leave any warehouse.
- In addition, this system is very simple to use as it is developed under WINDOWS™.

This weight bridge system consist of:

- PENTIUM™ computer (Optional)
- 80 columns printer (Optional)
- Lorry weighing application under WINDOWS™.environment.
- Weighing indicator(s) (Optional)

Main Menu

Tables direct access

Validate and cancel the actual weight Scale selection

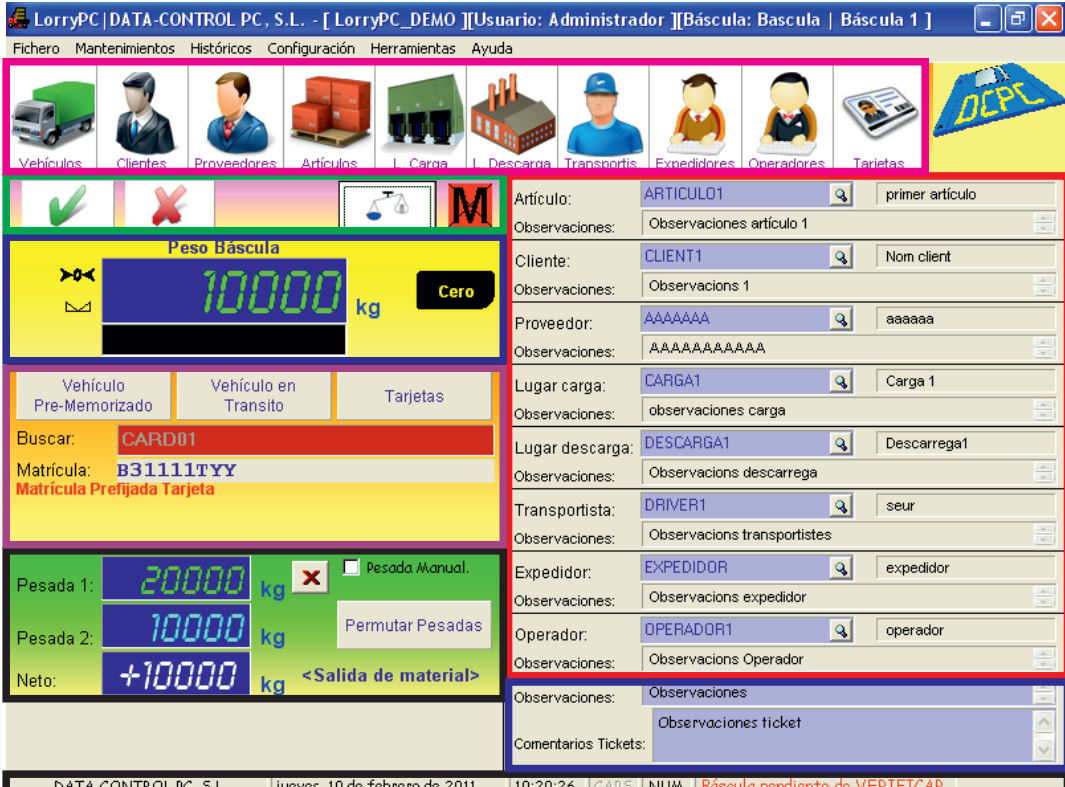
Weighing Indicator

* Vehicle ID
* Pre-stored
* In transit
* Card selection

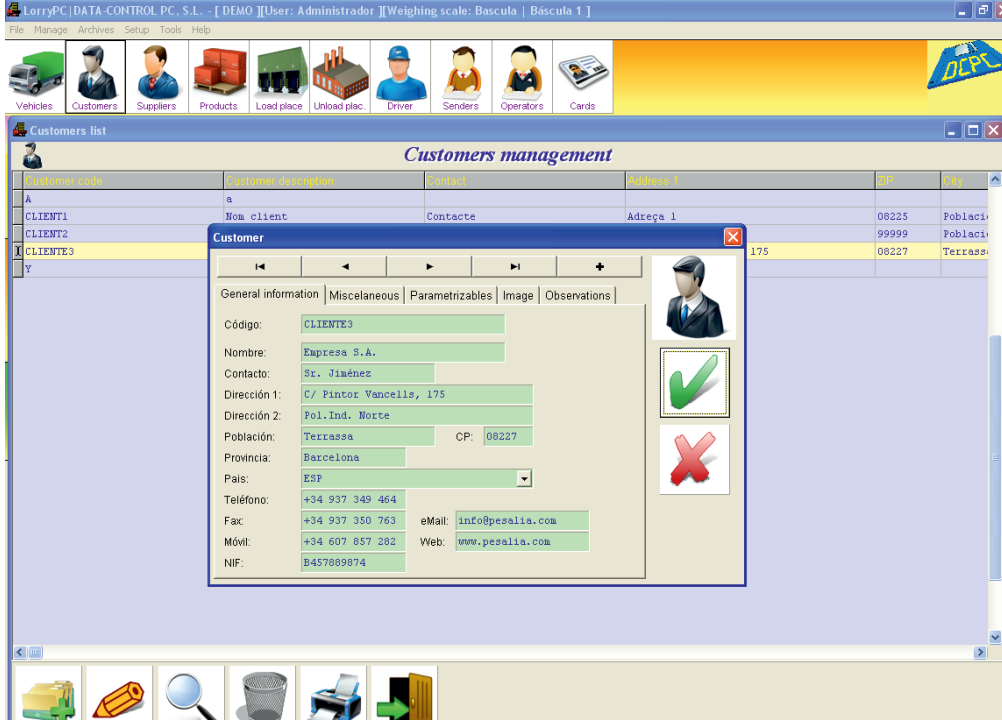
Ticket summary

Selected records from tables.

Observations



Auxiliary information



Edit customer form.

MAIN FEATURES:

- ✓ Application full compatible with indicators:
 - ▲ DATA-CONTROL PC
 - ▲ SARTORIUS
 - ▲ HBM
 - ▲ SIPI
 - ▲ EPELSA
 - ▲ PIBERNAT
 - ▲ MOBBA
 - ▲ UTILCELL
 - ▲ METTLER-TOLEDO
 - ▲ MICROGRAM
 - ▲ etc.
- ✓ Number of scales: up to 32.
- ✓ Vehicle entries.
- ✓ Vehicle exits.
- ✓ Stock control of every product.
- ✓ Full database management of:
 - ▲ Vehicles (tares)
 - ▲ Customers
 - ▲ Suppliers
 - ▲ Products
 - ▲ Load place
 - ▲ Unload place
 - ▲ Drivers
 - ▲ Shippers
 - ▲ Logistic operators
 - ▲ Cards
- ✓ Application's management options:
 - ▲ Add
 - ▲ Delete
 - ▲ Edit
 - ▲ Queries
 - ▲ Reports
 - ▲ Find
 - ▲ Sort
 - ▲ Fix range
- ✓ Control of activities in historical files of:
 - ▲ Entries
 - ▲ Exits
 - ▲ Vehicles in transit
- ✓ The historical files have several options to manage its records:
 - ▲ Delete
 - ▲ Delete selection
 - ▲ Edit
 - ▲ Reports
 - ▲ Queries
 - ▲ Sort
 - ▲ Export
 - ▲ Duplicate tickets
- ✓ Calculation of the weighed cost price of raw materials entrances.
- ✓ Configurable delivery notes.
- ✓ Multi-enterprise.
- ✓ Level access by user.
- ✓ Automatic and manual backups.
- ✓ The configuration options are protected with a configurable PASSWORD.

REPORTS:

- ✓ **Preview of the reports on the screen.**
- ✓ Vehicles (tares), Customers, Suppliers, Products, Load place, Unload place, Drivers, Shippers, etc.
- ✓ Delivery note of input and output of materials.
- ✓ Vehicle's entrance delivery note.
- ✓ Historical file of material entrances.
- ✓ Historical file of material exits.
- ✓ Listing of vehicles in transit.

OPTIONS:

- ✓ Possibility of interconnection with our dosing weighing system **DOSIFICA-PC** to do stock control.
- ✓ Duplicity of operating keys by means of external buttons.
- ✓ Barcode label printing.
- ✓ Codes input by a barcode reader.
- ✓ Codes input by TAG cards or magnetic strip.
- ✓ Control of vehicles in transit with traffic light.
- ✓ RS232, RS485, Modem or ETHERNET communication with other devices.
- ✓ Communication with other applications.
- ✓ We can modify the operating on demand.

- This application has been designed to work with the DW-### indicators to increase their power in tasks such as additive, subtractive or associative filling.
- The program allows to manage an unlimited number of products, the historical file of all the cycles performed and it can obtain accumulated weights, error reports, detailed listings, etc.
- This program also allows to manage and register all the alarms that could take place during the operation of the equipment, as well as their further listing.

MAIN FEATURES:

- ✓ No. of scales: maximum 32.
- ✓ No. of products: Unlimited
- ✓ No. of lots: Unlimited
- ✓ Management options available are:
 - ▲ Add
 - ▲ Delete
 - ▲ Edit
 - ▲ Queries
 - ▲ Reports
 - ▲ Find
 - ▲ Sorting
 - ▲ Fix range
- ✓ Automatic adjustment of preact weight.

REPORTS:

- ✓ *Preview of the reports on the screen.*
- ✓ Products
- ✓ Listing of cycles performed
- ✓ Batch
- ✓ Listing of final production cycle
- ✓ Working order
- ✓ Listing at batch finishing

OPTIONS:

- ✓ Integration with our lorry weighing system **LORRY-PC**.
- ✓ Integration with our dosing weighing system **DOSIFICA-PC**.
- ✓ RSxxx, Modem or ETHERNET communication with other devices.
- ✓ Communication with other PC.
- ✓ Barcode label printing of the performed cycles by a labelling machine.
- ✓ We can modify the operating under demand.

The screenshot shows the 'Easy Filler for Data-Weight Equipment - DATA-CONTROL PC, S.L.' interface. It includes a menu bar (Fichero, Mantenimientos, Histórico, Configuración, Acerca de...), a toolbar with icons for Artículos, Lotes, Ver Parámetros, Ver Alarmas, Escoger Lote, and Báscula. The main area is divided into several sections:

- Scale's status:** Includes buttons for Estado (Stop, Run, Pause, Program, Alarma) and Estado Báscula (Neto, Bruto, Program, Alarma).
- Outputs status:** Includes buttons for Salidas (Gran Caudal, Pequeño Caudal, Vaciado).
- Weight:** A large digital display showing '69.8'.
- Filling equipment's parameters:** Includes sections for Parámetros Llenado (Producto, Saco de 150Kg) and Resultados Ciclos (a table with columns for Fecha I., Hora I., and Ciclo).
- Active indicator information:** Includes a section for Alarms (a table with columns for Estado, Fecha I., Hora I., Código Alarma, Descripción Alarma, and Visor).
- Process status:** Includes buttons for Proceso (Start, Stop, Pause) and Manual (Vaciar).
- Access to the indicator's functions:** Includes buttons for Báscula (Cero, Tarar, N/B).
- Alarms validation:** Includes buttons for Reintentar, Cancelar, and Continuar.
- Last alarms registered:** A section at the bottom showing the most recent alarm events.
- General information:** A section at the bottom showing the current date and time.
- Last cycles registered:** A section at the bottom showing the most recent filling cycles.

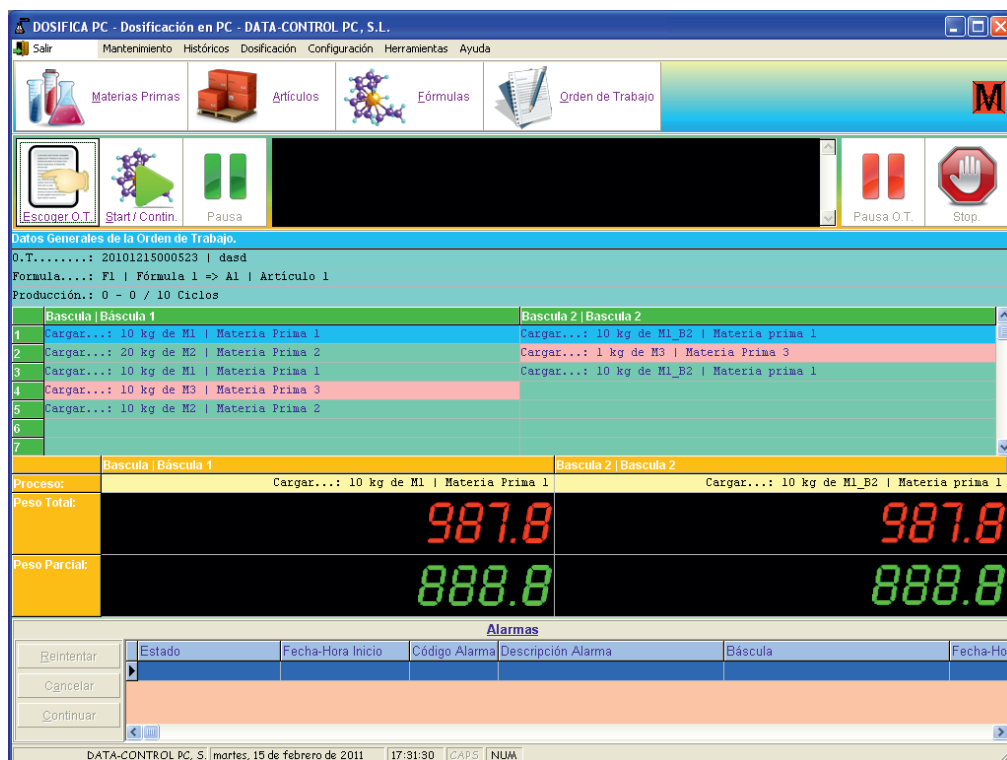
Arrows point from the labels to the corresponding sections in the software interface.

➤ Dosage systems are essential in a great amount of situations. The most important characteristics to keep in mind are: the amount of managed formulas, flexibility, error detection, precision and simplicity of programming and operating.

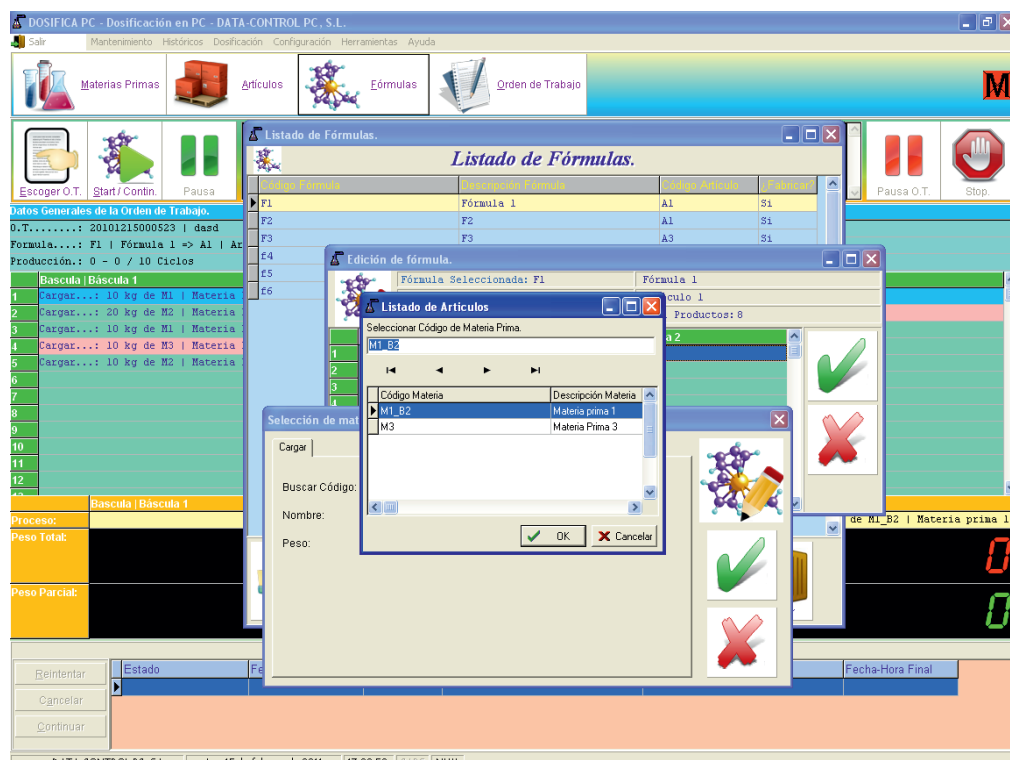
➤ When looking for a dosing system with these features remember how your present expectations may change in the future and how could the considered system be adapted to the new working way.

This modular dosing system consist of:

- Computer with 80 column printer.
- Dosing program under WINDOWS™ environment.
- DW-XT weighing indicator(s) with RS232 or RS485 communications.
- Electrical cabinet with all the electronic modules to control input and output signals.



Screen for the supervision of the dosing process.



Formulation screens.

MAIN FEATURES:

- ✓ Formulation in % or kg
- ✓ No. of scales: from 1 to 5 (depending on the version).
- ✓ No. of products to dose with 2 rates: from 8 to 64 (depending on the version).
- ✓ No. of products to manage: Unlimited.
- ✓ No. of formulas and steps per formula: Unlimited.
- ✓ No. of positions in working orders: Unlimited.
- ✓ Available management options:
 - ▲ Add
 - ▲ Reports
 - ▲ Delete
 - ▲ Find
 - ▲ Edit
 - ▲ Sorting
 - ▲ Queries
 - ▲ Fix range
- ✓ Stock control of every product, kg produced per formula and kg spent of each raw material.
- ✓ Manual product management allowing the operator to add small components manually.
- ✓ Possibility of managing not-dosing products in the formulas.
- ✓ Automatic or Manual preact weight adjustment.
- ✓ Control output signals:
 - ▲ Waiting Start of cycle
 - ▲ Last cycle
 - ▲ Coarse / fine rate
 - ▲ Manual product
 - ▲ Unload
 - ▲ Alarms
 - ▲ Partial Unload
- ✓ Control input signals:
 - ▲ Start cycle / Continue
 - ▲ Start / Stop
 - ▲ Pause
 - ▲ Unloading gate closed
- ✓ Power failure control, allows continuing dosing after it.
- ✓ Calculation of the average cost price of the produced products.
- ✓ The configuration options are protected with a configurable PASSWORD.

REPORTS:

- ✓ **Preview of the reports on the screen.**
- ✓ Products.
- ✓ Brief and detailed list of formulas.
- ✓ Working order.
- ✓ Report of finished formulas.
- ✓ Report of consumed products.
- ✓ Report of regularizations.
- ✓ Report of end of working cycle.
- ✓ Historical report of performed dosings.
- ✓ Products to be manually dosed.
- ✓ Final report of the working order.

OPTIONS:

- ✓ Integration with our weight bridge weighing system **LORRY-PC.**
- ✓ Duplicity of operating keys by means of external buttons.
- ✓ RS232, RS485, Modem or ETHERNET communication with other devices.
- ✓ Communication with other PC.
- ✓ Integration with SCADA systems.
- ✓ Barcode label printing of the performed dosings by a labelling machine.
- ✓ We can modify the operating on demand.

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Tablet, Panel PC

66 DC-TPC97: 9.7" Tablet PC

68 DC-PPC104: 10.4" Panel PC

68 DC-PPC15: 15" Panel PC

TABLET PC - DC-TPC97

Features:

TFT LCD with LED Backlight
Intel Atom N2600 1.6 Ghz Processor
2GB of 1066MHz RAM DDR3 SO-DIMM
32 GB SSD
Capacitive Multi-touch Screen



Package contents:

Item	Reference
Tablet PC DC-TPC97	DC-TPC97
Motherboard CD Drivers	DC-TPC-CD1
External power supplier	DCADAP40W

TABLET PC - DC-TPC97

Technical features

Model		DC-TPC97
LCD display	Type / Size	TFT Color LCD / 9.7"
	Aspect ratio	4:3
	Maximum resolution	1024 x 768 px
	Graphic CPU	Integrated 3600 GMA
	Backlight	LED
System	CPU	Intel Atom N2600 1.6GHz Core Processor
	Chipset	Intel NM10
	Internal memory	DDR3 (1066 MHz), 1 slot SO-DIMM up to 4Gb
	Hard disk	SSD from 16 to 128 GB
	Inputs / Outputs	2 x USB
		1 x Jack Audio
		1 x HDMI
		1 x Jack of power supply
	Buttons	ON/OFF, Volume Up/Down, Menu
	Expansion board	TF card SIM card (Data)
	Operating system	Windows 7 and Windows 8 support
Other data	Audio	HD Audio, 2 speakers
	Refrigeration	Fan cooling
	G-Sensor	3-axis gravity sensor
	Camera	0.3 Mega pixels
Conectivity	Wifi	slot mini PCIE IEEE 802.11 b/g/n
	Bluetooth	V2.1
	3G	Optional
	Ethernet	10/100Mbps
Touchscreen	Type	Multi-touch capacitive
Power supply	External power supply	Input 110Vac ... 220Vac; 50 ... 60Hz Output 19Vdc 40W
		2 x 7.4V Lithium polymer battery 3600...4200mA/h Battery life 4/6h
Enclosure	Material	Aluminium
	External dimensions	240mm x 190mm x 15.8mm
	Net weight	0.9 kg
Environmental	Working temperature	-10 ... 40°C
	Storage temperature	-20 ... 60°C
	Relative humidity	20% ... 90% (Not condensing)
	IP level	IP54
	EMC	CE

Options

Item	Reference
Solid state drive SSD 32 GB	DCSSD32
Solid state drive SSD 64 GB	DCSSD64
Solid state drive SSD 128 GB	DCSSD128
Operating system Windows 8	DCWIN8
Operating system Windows 7	DCWIN7
Operating system Windows XP	DCWINXP
Power supply	DCADAP40W

Features

- TFT LCD with LED Backlight
- Intel Atom D525 1.8 GHz Processor
- 2GB of pre-installed RAM 800MHz DDR3 SO-DIMM
- 16 GB SSD
- 4-wire resistive touchscreen



Input/Output interfaces:



PANEL PC - DC-PPC104 / DC-PPC15

Model		DC-PPC104	DC-PPC15	
Display LCD	Type	TFT Color LCD		
	Size	10.4"	15"	
	Active area	211.2mm x 158.4mm	304.1mm x 228.1mm	
	Aspect Ratio	4:3		
	Maximum resolution	800 x 600 px	1024 x 768 px	
	Colours	16.7M		
	Brightness (cd/m²)	250 cd/m²	350 cd/m²	
	Backlight	LED		
	Contrast ratio	500:1	700:1	
	Response time	5ms	4 ms	
	Pixel size	0.264 x 0.264 mm	0.297 x 0.297 mm	
	Viewing angle	140º/110º (H/V)	140º/125º (H/V)	
System	CPU	Intel Atom N2600 1.6GHz Core Processor		
	Chipset	Intel NM10		
	Internal memory	DDR3 (800/1066/1333MHz) 2Gb on platter Maximum 4Gb		
	Hard disk	16 GB SSD		
	Inputs / Outputs	1 x HDMI 1 x RS232 (5 maximum) 1 x RS485 2 x RJ45 LAN Realtek 8111E 1000 Mbit 4 x USB (6 maximum) 1 x Jack Audio Line In 1 x Jack Audio Line Out, 1W 1 x Power switch 1 x Power input jack		
		Expansion board		1 x PCIE
		Other data	Audio	Realtek ALC662 Line-In / Line-Out 3W
Refrigeration			Not fan cooling	
Conectivity		Wifi	IEEE 802.1b/g/n with USB adapter (Optional)	
	Bluetooth	V2.0 with USB adapter (Optional)		
Touchscreen	Type	4-wire resistive		
	Interface	USB		
Power supply	External power supply	Input 100Vac ... 240Vac Output 12Vdc – 3A - 36W		
	Supply voltage	12Vdc		
	Consumption	≤ 18W	≤ 25W	
Enclosure	Material	Aluminium and Iron		
	Colour	Dark grey		
	Mount	Panel mount		
	External dimensions	304mm	398mm	
		255mm	326mm	
58mm		58mm		
Gross / net weight	3.5 kg / 2.9 kg			
Environmental	Working temperature	-20 ... 50°C		
	Storage temperature	-20 ... 60°C		
	Relative humidity	20% ... 90% (Not condensing)		
	IP level	IP64 (front)		
	EMC	CE		

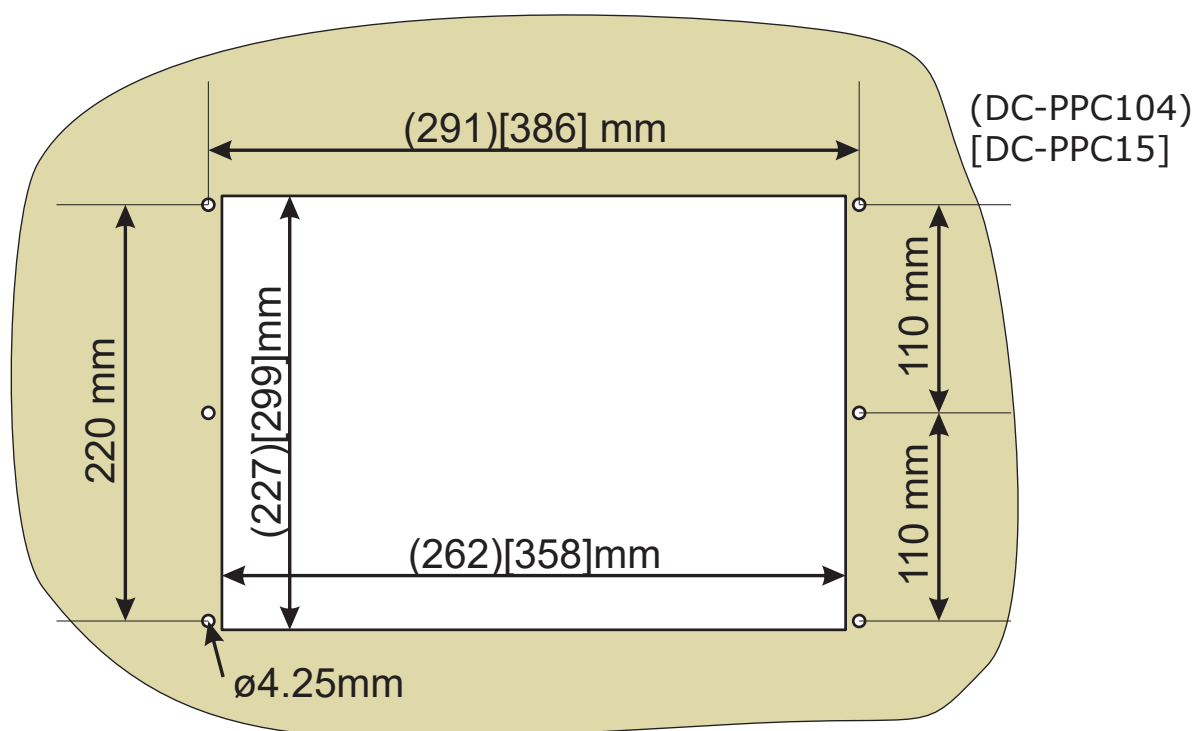
Options

Item	Reference
Wifi module	DCPPC104-WIFI
Bluetooth module	DCPPC104-BLUETOOTH
Solid state drive SSD 32 GB	DCSSD32
Solid state drive SSD 64 GB	DCSSD64
Solid state drive SSD 128 GB	DCSSD128
Solid state drive SSD 256 GB	DCSSD256
Solid state drive SSD 512 GB	DCSSD512
Hard disk HD 320 GB	DCHD320
Hard disk HD 500 GB	DCHD500
Hard disk HD 1 TB	DCHD1000
Operating system Windows 8	DCWIN8
Operating system Windows 7	DCWIN7
Operating system Windows XP	DCWINXP
Power supply	DCADAP36W

Package contents

Item	Reference
Panel mount PC DC-PPC104	DCPPC104
Motherboard CD Drivers	DCPPC-CD1
Touchscreen CD Drivers	DCPPC-CD2
Resistive touchscreen stylus	DCPPC-TECPEN
Mounting screws	DCPPC-SCRE
External power supplier	DCADAP36W

Assembly



72 DW-RT: Weighing acquisition module.

74 DC-IO##: Digital input and output module.

75 DC-TR9: PWM controller for vibrators.

74 DC-ST2M: Step motor controller.

Weighing acquisition module

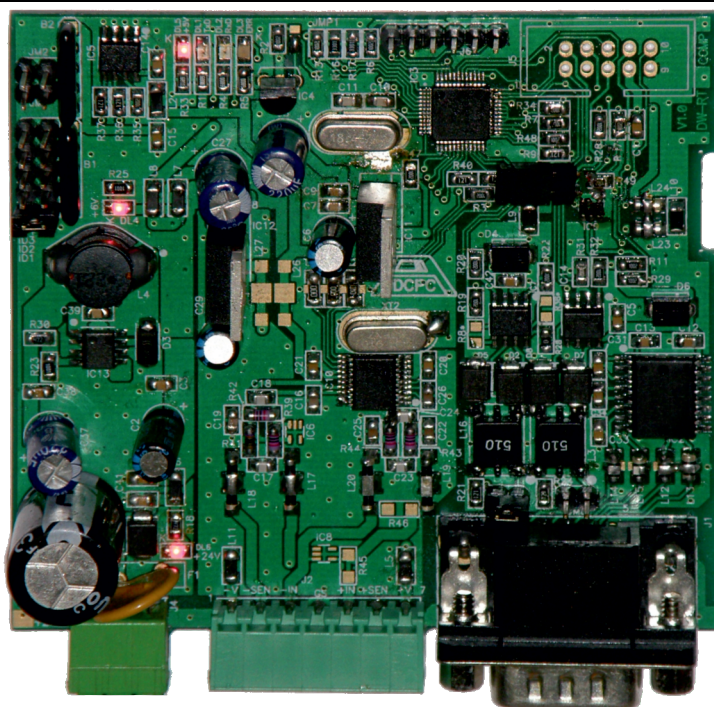
► The DW-RT acquisition module is a PCB designed to obtain quickly and accurately the weighing value from any scale via RS232, RS485 or CANBUS.

FEATURES

- ✓ 1 weighing input channel.
- ✓ RS232 and RS485 communication port at 38400 or 115200 bauds.
- ✓ Allows connecting up to 31 modules on the same bus (31 scales).
- ✓ Communication protocol with checksum.
- ✓ 12-24Vdc power supply.
- ✓ Adjust and calibration through communication port.
- ✓ Plug-in connectors with screw..

METROLOGICAL FEATURES:

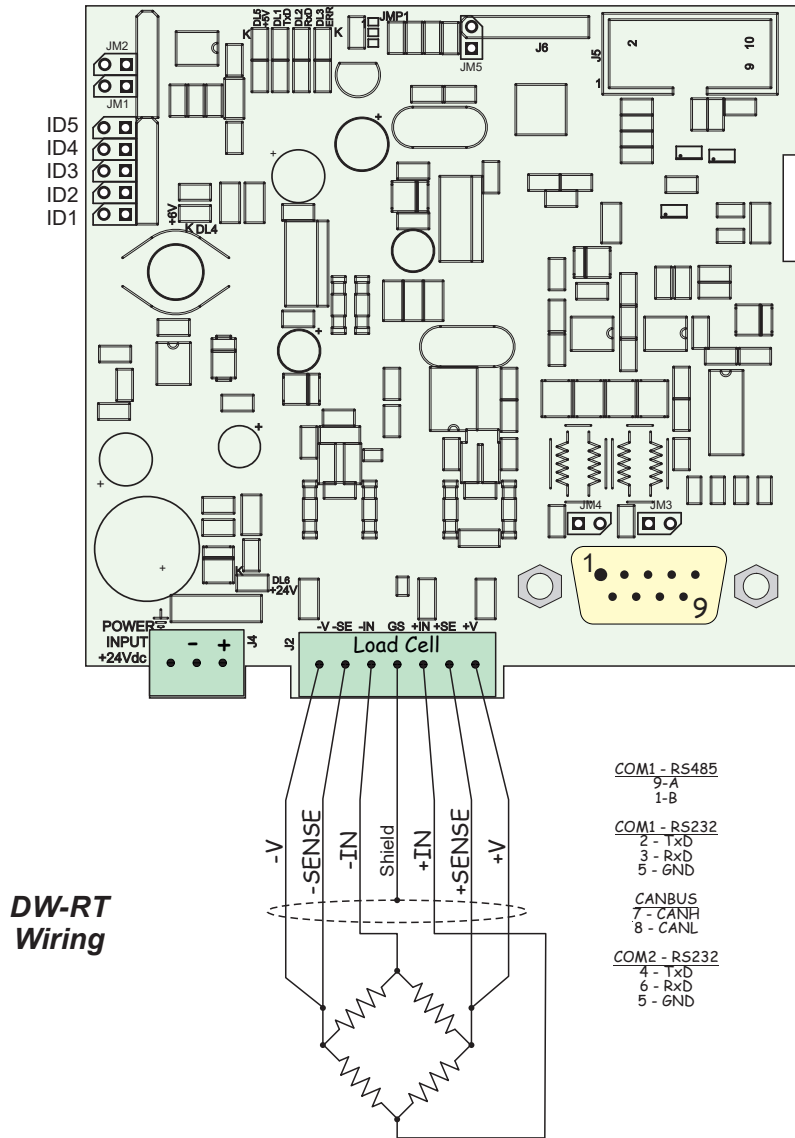
Description	Symbol	Value	Units
Precision class	-	III	-
Maximum number of verification steps:	n_{ind}	6000	-
Load cell excitation voltage:	U_{exc}	+5	Vdc
Minimum input voltage for verification step:	ΔU_{min}	1	μV
Zero stability		150	nV/°C Max
Gain stability		3.5	ppm/°C Max
Load cell minimum resistance:	R_{Lmin}	43	Ω
Load cell maximum resistance:	R_{Lmax}	500	Ω
Minimum operating temperature:	T_{min}	-10	°C
Maximum operating temperature:	T_{max}	40	°C
Relative humidity:		< 95 % a 40 °C	
Storage temperature:		-25 a 85	°C
Fraction of the maximum allowed error:	ρ_{ind}	0.5	-
Sensibility:		0.9 a 7.93	mV/V
Minimum input applicable voltage:		-19	mV
Maximum input applicable voltage:		+19	mV
Converter Resolution:		24 16.777.215	Bits Counts
Internal divisions in steps of 2mV/V:		250.000	d
Average noise:		9	ppm
Samples / Second:		15 ... 960	
Capacity (CP):		1 to 300000	kg, g, lb, etc
Complying with:		OIML R76	(pending)
Complying with:		UNE-EN-45501	(pending)



DW-RT
Module

APPLICATIONS:

- ✓ Multi-head weighing scales.
- ✓ Remote weighing acquisition module.



Digital input and output module

► The DC-IO## control module has been designed to operate the I25-230Vac or I2-24Vdc outputs and digital inputs through a RS485 communication port.

VERSIONS:

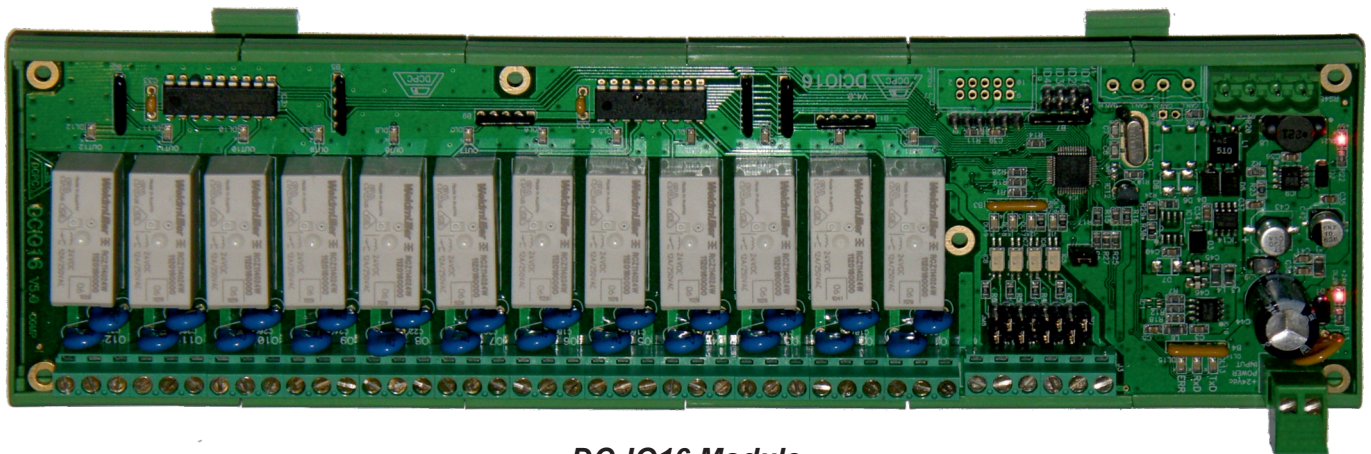
- ✓ DC-IO8 - 4 relays and 4 digital inputs per module.
- ✓ DC-IO12 - 8 relays and 4 digital inputs per module.
- ✓ DC-IO16 - 12 relays and 4 digital inputs per module.

FEATURES:

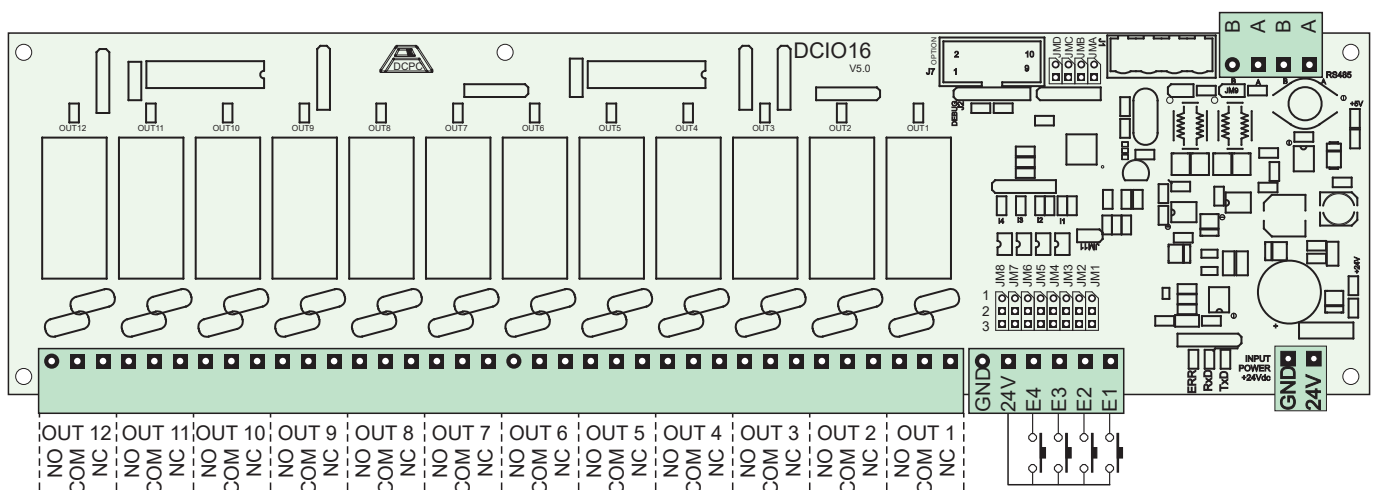
- ✓ RS485 communication port at 38400 or 115200 bauds.
- ✓ Allows connecting up to 15 modules on the same bus (180 relays).
- ✓ Communication protocol with checksum.
- ✓ 12-24Vdc power supply.
- ✓ 4 opto-isolated NPN or PNP digital inputs with 12-24Vdc external power supply.
- ✓ Plug-in connectors with screw.
- ✓ DIN and OMEGA rail assembly.

APPLICATIONS:

- ✓ Multi-head weigher.
- ✓ Dosing systems.
- ✓ Control all type of digital inputs and outputs.



DC-IO16 Module



DC-IO16 Wiring

DC-TR9

PWM controller for Vibrators

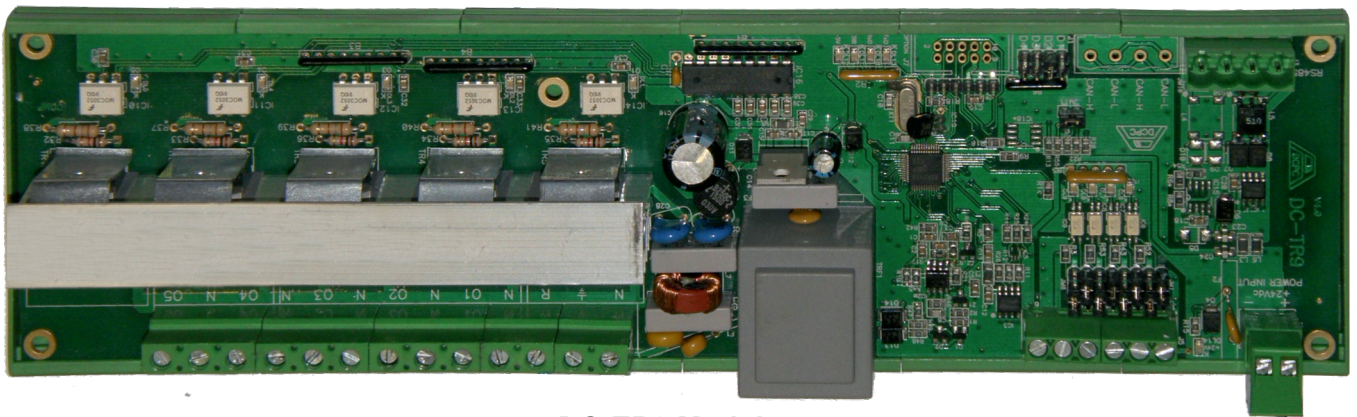
► The DC-TR9 control module has been designed to operate single-phase 125 or 230Vac vibrators, via RS485 and CANBUS communication ports.

FEATURES:

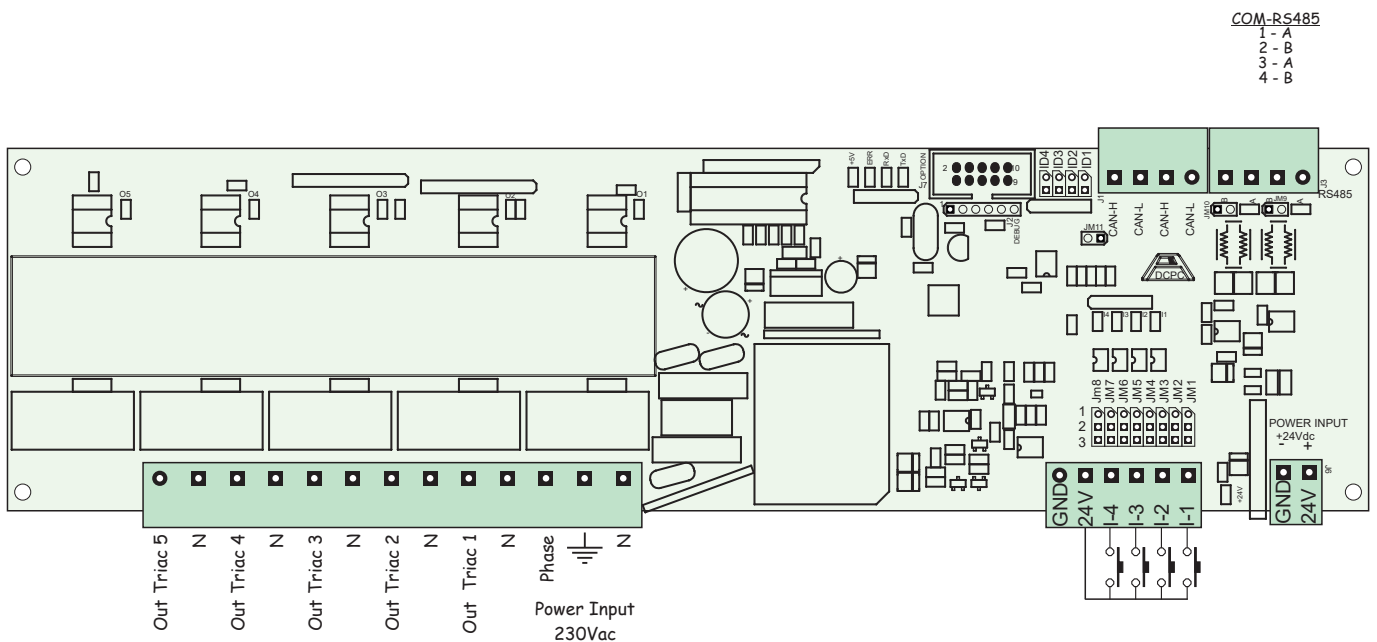
- ✓ 5 Channels per module.
- ✓ RS485 communication port at 38400 or 115200 bauds.
- ✓ Allows connecting up to 15 modules on the same bus (75 Vibradores).
- ✓ Communication protocol with checksum.
- ✓ Allows many working modes; standard, by photo-eye, etc.
- ✓ 125 or 230Vac power supply (for PWM outputs).
- ✓ 12-24Vdc power supply (for digital inputs).
- ✓ Up to 750W per channel.
- ✓ Configuration of: PWM %, gate time activation, number of semi-periods, etc.
- ✓ 4 opto-isolated NPN or PNP digital inputs with 12-24Vdc external power supply.
- ✓ Plug-in connectors with screw.
- ✓ DIN and OMEGA rail assembly.

APPLICATIONS:

- ✓ Multi-head weighers.
- ✓ Vibrating channel control.
- ✓ PWM control of resistive and inductive devices.



DC-TR9 Module



DC-TR9 Wiring

DC-ST2M

Step motor controller

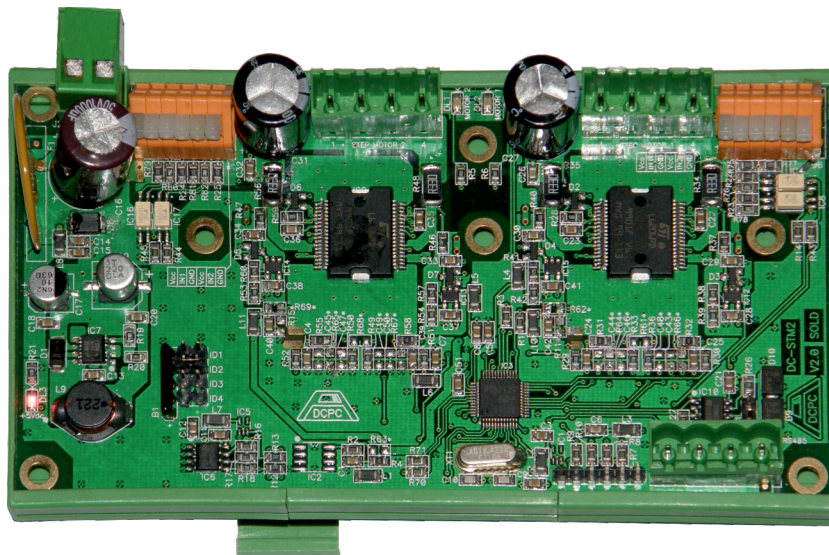
► The DC-ST2M control module has been designed to operate with hybrid bipolar step motors through a RS485 communication port.

FEATURES:

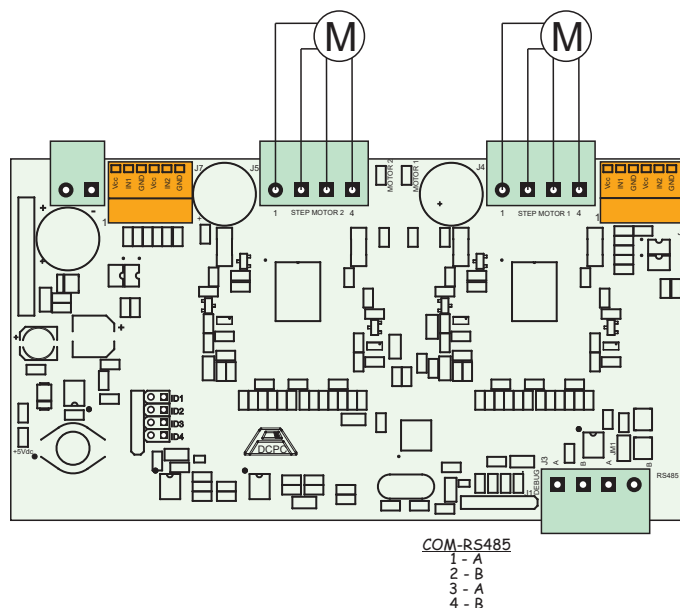
- ✓ Control of 2 motors per module.
- ✓ RS485 communication port at 38400 or 115200 bauds.
- ✓ Allows connecting up to 15 modules on the same bus (30 motors).
- ✓ Communication protocol with checksum.
- ✓ Allows many working modes.
- ✓ Direct supply from 12-24Vdc power supply.
- ✓ 4 opto-isolated digital inputs for limit switching mode or PNP input with power supplied by the module or externally.
- ✓ Plug-in connectors with screw.
- ✓ DIN and OMEGA rail assembly.

APPLICATIONS:

- ✓ Multi-head weighers.
- ✓ Generic positioning systems.
- ✓ Etc.



DC-ST2M Module



DC-ST2M Wiring

CERTIFIED QUALITY


MAXIMUM PRIORITY FOR THE QUALITY AT DATA-CONTROL PC

Since its starts, PDATA-CONTROL PC has given priority to the quality in all its areas, and in the year 2007 obtained the ISO 9001:2000 certificate.

Recently has been certified in ISO 9001:2015 for its Quality Management System in design, manufacture, verification, sales and after-sales service of equipment and systems of measurement and control, as well as leds displays.

The Test Certificates obtained based on the European Standard EN-45501, MID, OIML R76, OIML R51, OIML R61 y OIML R107 is our guarantee of quality management.

Certificate of Conformity.



QML Quality Management Lead, S.L.
C/ Consejo de Ciento 6, 08210 Barberá del Vallés.



Quality Management Lead, certifies that the Organization's Quality Management System:

DATA CONTROL PC, S.L.U
C/Pintor Vancells, 175 Bajos
08225, Terrassa
Barcelona, Spain.


It has been audited and evaluated in accordance with the

ISO 9001:2015

The management system has been found to be compliant for the following activities reflected in its

Design, manufacture, verification, commercialization and after-sales service of devices and systems for control and measurement, as well as LED display.

Certificate Number: Q-059/24
Initial certification: 2007
Date of issue: 22/11/2024
Certificate Expiration: 29/10/2025





Quality Management Lead, certifie que le système de gestion de la qualité de l'organisation :

DATA CONTROL PC, S.L.U
C/Pintor Vancells, 175 Bajos
08225, Terrassa
Barcelone, Espagne.

conformément à la norme de

ISO 9001:2015

a été jugé conforme pour les activités reflétées dans son champ

Conception, vérification, commercialisation et service après-vente de systèmes de contrôle et de mesure ainsi que d'écrans à LED.

Q-059/24
2007
22/11/2024
29/10/2025





Quality Management Lead, certifica que el Sistema de Gestión de Calidad de la Organización:

DATA CONTROL PC, S.L.U
C/Pintor Vancells, 175 Bajos
08225, Terrassa
Barcelona, España.

conforme a la Norma de Referencia:

ISO 9001:2015

ha sido encontrado conforme para las actividades reflejadas en su alcance de:

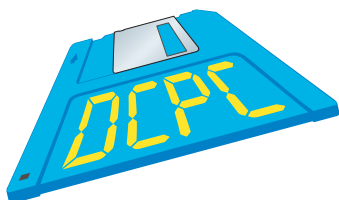
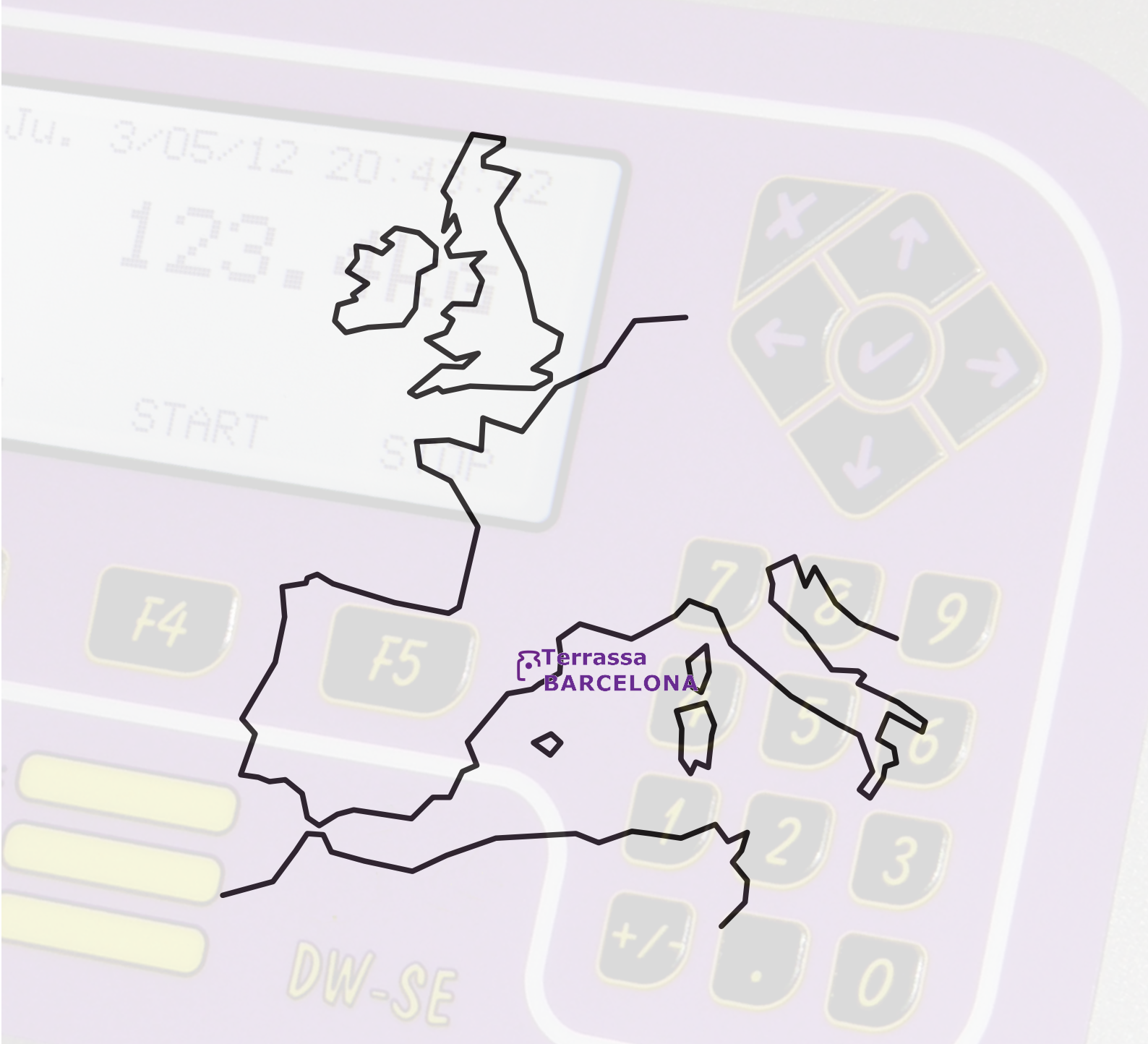
Diseño, fabricación, comercialización de equipos y sistemas de medición y control así como displays de leds.

Q-059/24
2007
22/11/2024
29/10/2025





QUALITY MANAGEMENT LEAD
ISO 9001:2015
REGISTRO DE CERTIFICADO



PESALIA

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