MULTIFUNCTION WEIGHT INDICATORS "DFW XP"

New version of DFWXP weight indicators with completely renewed weighing program and keyboard. The wide range of operating modes and the available interfaces make it perfect for many industrial and commercial weighing applications. It can be used as scales and platforms on the ground, mobile scales etc. Type-approved CE-M(OIML R-76/EN45501).

MAIN FEATURES

- 5-key functional or 17-key numerical and functional waterproof keypad, with indication for quick access to main functions and regulations.
- 25mm LCD backlit display with 6 high contrast digits with icons indicating the active functions.
- Easy to clean **ABS waterproof IP65** enclosure; resistant to harsh and corrosive environments (IP40 on version with thermal printer).
- Dimensions in mm: 278x125x186 mm
- Suitable for use on the table, column, or wall.
- The "...PXP..." versions are provided with attached thermal printer and real time clock.
- 24-bit A/D converter, 4 channels, up to 200 conv./sec. and up to 8 signal linearisation points
- Up to 10.000e or multirange 2 x 3000e @ 0,3 µV/e in CE-M approved version for legal for trade use.

SELECTABLE FUNCTION MODES

- The user can select the operating modes directly using the dedicated key*:

- High resolution display x 10
- Precision weighing with temporary recalibration via a sample weight (for internal factory use)
- Net/Gross
- Lb to Kg converter
- Free conversion factor (for meter and litre counters etc.)
- Weight totalizer
- Formulizer
- +/- controller with quick target and threshold input
- Percentage weighing
- Percentage batching with programmable target
- Piece counter
- Hold
- Two-speed filling/batching with reset upon starting (with optional DFIO)

The "alibi memory" and "setpoint" functions are available in combination with the required operating mode and they are activated automatically when installing the relevant optional board.

- Optional functions:
  - PEAK, detection of weight peaks (code DFWPK)
  - Newton to Kg converter (code DFWPK)
  - Input-output (on request).

- Access to the user menu is gained using the dedicated key* to adjust the weighing filter, date and time, setpoint and tare weight, which the user can access by entering a programmable access password.

  These quick access keys to the menus can be blocked by configuring a dedicated password.

AVAILABLE FUNCTIONS FROM REMOTE CONTROL

- **Radiofrequency 6-key remote control**: zero, tare, enable / disable function, print, switch-off.

- Up to 1.000.000 displayable divisions with internal resolution up to 3.000.000 points
- Digital calibration and set-up through keyboard or PC with DINITOOLS.
- Built-in rechargeable battery (60 hours with one 350-Ohm load cell) and 110-240 Vac internal power adapter
- Connectable with up to 8 350-Ohm load cells or up to 16 700-Ohm load cells.

I/O SECTION

- RS232/C port configurable for connection with printer/labeller, or for attached printer.
- RS232/C **(or optionally RS485)** bi-directional port configurable for PC, PLC, remote display, and radio modem. Quick RJ RS232 plug connection.
- IR input only available for models with simplified 5-key keypad.

KEYBOARD FUNCTIONS

- Zeroing, Automatic tare, Presettable tare, printing and/or data transmission, selectable function command, on/off switching, backlit setting, function mode quick selection, user menu.

  17-key Version: Database of 30 tares, 2 Numeric IDs, keyboard lock, repetition of last printout

- **Infrared 19-key remote control**: zero, tare / manual tare, enable / disable function, print, switch-off (IR input only available for models with simplified 5-key keypad).

made, quick target insertion, APW, threshold and setpoint.

- EU Type Examination Certificate (45501:2015)
- OIML R76

MASTER/REPEATER OPTION

- Specific program (**MSTSLV** code) for use of the indicator as a universal weight repeater or as a multi-scale repeater (MASTER) in combination with DFW/DGT/MCW.

  FUNCTIONING MODES:
- **Multi-scale repeater (MASTER)**: function which allows to repeat up to 32 independent scales, with the possibility of managing their functions, or displaying and printing the sum of the weighs of all the scales.
- **UNIVERSAL weight repeater**: function which allows to repeat the weight of any scales, through the configuration of the input string.

Available versions

	Code	Description
	DFWXP	5-key indicator. IP65 ABS case, backlit LCD display.
	DFWPXP	Multifunction indicator 5-key keypad with attached thermal printer backlit LCD display, real time clock and standard weighing programme.
	DFWKXP	17-key indicator. IP65 ABS case, backlit LCD display, and standard weighing programme.

DFWKPXP 17-key indicator with attached printer and real time clock. ABS case, backlit LCD display.

Specific versions

Code	Description
DFW-1	5-key indicator with external power supply. Without built-in rechargeable battery, RJ45 connector, glands and caps not included. TAKE NOTE: no option installed at time of order. Options can be provided separately.

Available firmwares

Code	Description
DFWPK	Program for detecting weight peaks or kg to N conversion

Optional power supply cords

Code	Description
PWCORDUK	Power supply cord with BS1363 plug (UK plug).
PWCORDCH	Power supply cord with SEV1011 plug (CH plug).

Junction Box / Boards - Load Cell cables

Code	Description
DFW4CH	(S1) Internal board for a quick connection of up to 4 (equalised) scales.
LCCBC	(S1) Cable for connection between platform and indicator, l=50cm. Female connector to be soldered.
LCCB5C	(S1) LCCBC cable + 5m extension cable.

LCCB10C (S1) LCCBC cable + 10m extension cable.
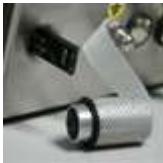
Approval for sale to third parties

Code   Description

KCEM Plates and Welmec form for legal trade use of a scale. NET PRICE. Service available in combination with a Dini Argeo indicator.

Storing the weighs

Code   Description

USBC (S1) Built-in USB port kit for data storing on USB key. Fitted with USB key for PC.

USBK Set of 5 USB keys for recording the weighs.

SWM WeiMonitor PC program to monitor and record in real time weighings performed on the connected scale(the price is intended for the license to manage one scale).

PC software for managing weighbridges

Code   Description

WEITRUCK- PC software for vehicle weighing. Combinable with DFW, DGT and
1   3590 series' weight indicators. Databases for storing the customer, material, and vehicle data, management of the totals and programmable printouts. Requires an Alibi Memory.

Printers/Labellers

	Code	Description
	LP542S	(S1) Direct thermal labeller.
	LP542TT	(S1) Thermal transfer or direct termal labeller. Peel-off kit in option.
	SMTPLUS-1	(S1) Thermal transfer or direct termal labeller. Peel-off kit in option.
	RSCBLP	(S1) RS232 cable l=1,5m for LP542xx, SMTPLUS, PR80 printers.
	RSCBLP10M	(S1) RS232 cable l=10m for LP542xx, SMTPLUS, PR80 printers.
	CNFSERV	Custom-made printouts for DFW and DFWL series. NET price.

Communication Interfaces

	Code	Description
	RSCBUSBPG	(S1) USB PC/RS232 converter cable, l=1,5m, with PG9. USB/RJ11 connector. For the connection to weight indicators with IP65 and IP68 protection system.
	RSCBUSB485	USB cable converter PC/RS485, l=1,5m. With metallic PG9 cable gland. To be combined with an indicator fitted with optional or standard RS485 output.
	WIFITD-1	(S1) Built-in WI-FI interface. For wireless connection (through access point) to the company computer system.
	ETHD	(S1) Built-in Ethernet interface. Speed from 10 to 100 Mbps, TCP, UDP, IP, ARP, ICMP, Ethernet Mac protocols.

	BLTH-2	(S1) Built-in bluetooth interface. For wireless connection to the portable PC or PDA. Weighing app downloadable from Google Play.
	OBRF-2	(S1) External 868 MHz radio module, cable l=3m. ABS IP65 protecting box, 3 m cable, power supply from weight indicator. Max. distance, in appropriate environmental and installation conditions: 70m indoors, 150m outdoors. 50 configurable channels.
	OBRFUSB-3	External 868 MHz radio frequency module, USB cable l=1m. Power supply directly from the USB port. Max. functioning distance, in appropriate environmental and installation conditions: 70m indoors, 150m outdoors. 50 configurable channels.
	OBRF232-2	External 868 MHz radio module with ABS box and cable l=3m. Fitted with DB9 connector and external power adapter. Max. functioning distance, in appropriate environmental and installation conditions: 70m indoors, 150m outdoors. 50 configurable channels. (OBRF232 must be combined with another radio module).
	DFIO	(S1) Built-in 2 IN / 2 OUT interface (not combinable with ALMEM).
	DF485	(S1) RS485 bidirectional port for DFW series.
	DAC16O-1	(S1) Built-in analog output, 0-4/20 mA, 0-10VdC (cable gland excluded). For DFW, 3590 and CPW indicators. NOTE: For 3590, only with IOEXPB optional board. This interface is not available on its own, always to be combined with a weight indicator when ordering.
	ALMEM-1	(S1) Alibi memory (fiscal memory, max 120.000 weighs) for approved weight transmission to PC/PLC or data recording on MMC/USB. Built-in real time clock to print the date/time with PCB, screw terminal, plastic box and UL-marked labels (if applicable).

Date&Time option

Code   Description

DFCLK (S1) Real time clock for printing/displaying of date and time. With UL marked PCB, screw terminal, plastic box and labels (if applicable).

Connection cables

Code	Description
ETHCBRJ	(S1) Ethernet cable, l=1,5m. Made up of fairlead, for connection between indicator and PC network.
RSCBRJ	(S1) RS232/C serial cable - DB9/RJ11 - l=1,5m.
RSCBRJ10M	(S1) RS232/C serial cable - DB9/RJ11 - l=10m.

Weight repeater software

Code	Description
MSTSLV	Program for using the indicator as a repeater. It must be combined with the DFW and DGT weight indicators.

Weight repeaters

Code	Description
DGT100R-1	Weight repeater with 100mm LED display. IP68 stainless steel case, 5-key keypad, air valve for regulating the humidity and the pressure.

Columns, supports brackets, visors

Code	Description
STFI-1	Stainless steel fixing bracket. For mounting the weight indicator on wall.
STFR-1	Stainless steel fixing bracket with adjustable inclination. For mounting the weight indicator on wall.

	KWR10	Kit of 4 rubber wheels and galvanized steel frame for CSP column. A pair of idler wheels and a pair with brakes.
	CSP38I-1	Stainless steel column 450x450mm, h=917mm, Ø 38mm. For the indicators of the DINI ARGEO and SCALE HOUSE range.
	CSP38	Stainless steel column 450x450mm, h=917, Ø 38mm. Painted steel base. For the indicators of the DINI ARGEO and SCALE HOUSE range.
	CSP38D	Stainless steel column 350x350mm, h=750mm. Painted steel base. For the indicators of the DINI ARGEO and SCALE HOUSE range.

Options for ATEX version

	Code	Description
	ZBA1S	Intrinsic protection three channel Zener barrier. Specific for connection to load cells, for mounting on DIN rail in a safe area, or in a flame-proof case. Marking: ATEX/IECEx II (1) GD [Ex ia Ga] IIC [Ex ia Da] IIIC. Manual and ATEX UE CONFORMITY DECLARATIONS (available in EN, DE, FR, ES and IT).
	KZBA	ATEX ABS housing kit with Zener Barrier ZBA1S for load cells. For intrinsically safe weighing systems in a dangerouse zone. Dimensions 180x180x150mm. It can connect up to 4 Load Cell of 350 Ohm. Marking of housing + Zener Barrier ZBA1S: ATEX II 3(1)G Ex nA [ia Ga] IIC T4 Gc (-20°C ≤ Ta ≤ +50°C) for gas, ATEX II 3(1)D Ex tb [ia Da] IIIC T130°C Dc IP65 (-20°C ≤ Ta ≤ +50°C) for dust. Manual and ATEX UE declarations of conformity (available in EN, DE, FR, ES and IT).
	KMB4	Kit of 3 ATEX Zener barriers for load cells, in an ABS box. For up to 4 load cells of 350 ohm, for intrinsic protection weighing systems in a dangerouse area. Marking of the whole box with three Zener barriers: ATEX II 3(1)G Ex nA [ia Ga] IIC T4 Gc (-20°C ≤ Ta ≤ +40°C) for gas, ATEX II 3(1)D Ex tb [ia Da] IIIC T130°C Dc IP65 (-20°C ≤ Ta ≤ +40°C) for dusts. Manual and certificates in English.
	DCATEXMB4	ATEX declaration for the whole system with Dini Argeo Zener barriers. Ex II 2G IIC T6 Gb X e Ex II 2D IIIC T125°C Db X system, with label of the whole system, for weight indicator connected to Dini Argeo zener barriers, connected to a mechanical structure with ATEX load cells (each cell must be certified with CCATEX option).

JB4QA	ATEX equalisation box made of ABS IP67, for up to 4 cells. 4 + 1 fairleads. Protection rates: ATEX II 2G Ex ib IIC T6 Gb for gases, ATEX II 2D Ex tb IIIC T115°C Db IP65 for dusts. Provided with manual and ATEX CE DECLARATIONS OF CONFORMITY (available in EN, DE, FR and IT).
JB4QAI	ATEX equalisation box made of STAINLESS steel IP66 for up to 4 cells. 4 + 1 fairleads. Protection rates: ATEX II 2G Ex ib IIC T6 Gb for gases, ATEX II 2D Ex tb IIIC T115°C Db IP65 for dusts. Provided with manual and ATEX CE CONFORMITY DECLARATIONS (available in EN, DE, FR and IT).
EXCB6	(S6) Shielded, blue, 6x0,22mm² cable, for EX i (2GD) applications. €/m

Keyboard protection cover

| Code | Description |
| CVRXP | Kit of 10 moulded protective covers in transparent plastic. For indicator DFWXP or 3590EXP with ABS case. |

Remote control

Code	Description
TLR-1	(S1) Radio frequency remote control and receiver. 433MHz, with 6 key, for use up to 50 m of distance, in appropriate environmental conditions (incompatible with repeater indicator or MSTSLV option).
DFTL12-1	(S1) 19-keys remote control and infrared receiver kit (max 8m).
IR8M	Infrared input for IR remote control.

Attached control light box

| Code | Description |
| OBCLTP | (S1) ABS 3 way control light (for indicator with relais output). Acustical alarm, connexion cable, power supply from indicator. |

PG cable glands

| Code | Description |

PG7P   10 PG7 ABS cable gland set for weight indicators.

PG9P   10 PG9 ABS cable gland set for weight indicators.

PG9PG11C Kit of 10 metalic IP68 from PG9 to PG11 adapters (ø max cable 12mm)

PG9PG13C Kit of 10 metalic IP68 from PG9 to PG13 adapters (ø max cable 12mm)

Accessories

Code	Description
TECSUP	Technical assistance by telephone upon request.
UMAN	Printed user manual (Free download on the website).
TECMAN	Printed technical manual (Free download on the website).
ECEMDOC	Printed EU declaration of conformity, EU certificate of verification, test certificate and metrological book (free download from our website, only for approved CE-M products). NET €.

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