

# "DFWLB": MULTIFUNCTION IP68 WEIGHT INDICATOR FOR INDUSTRY



DFWLB: multifunction weight indicator with IP68 protection degree.

## MAIN CERTIFICATIONS

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

## I/O SECTION

- RS232/C bidirectional port on RJ11 connector for quick connection (**optional RS485**) on screw terminal, configurable for PC, PLC, or additional remote display.
- RS232/C bidirectional port configurable for connection to printer or labeller.

Digital weight indicator for industrial environments, easy to install and use. The IP68 protection degree and the built-in long life battery make it particularly suitable for automotive and mobile weighing applications. Standard fitted with a support bracket with adjustable inclination. CE-M approveable (OIML R-76 / EN 45501).

## MAIN FEATURES

- 5-key functional waterproof keypad.
- Backlit 25mm LCD display with 6 high contrast digits with icons for showing the active functions.
- Easy to clean **ABS IP68 case**, resistant to harsh and corrosive environments.
- Suitable for use on the table, column, or wall.
- Fitted with fixing bracket with adjustable inclination.
- A/D 24 bit, 4 channel converter, max. 200 conv./sec. autoselect, and up to 8 signal linearisation points.
- Up to 10.000e or multirange 3 x 3000e @ 0,3  $\mu$ V/d in CE-M approved versions for legal for trade use.
- Up to 1.000.000 displayable divisions with internal resolution up to 3.000.000 points.
- Connection with up to 8 load cells with input resistance equal to 350 Ohm or up to 16 cells of 700 Ohm each.

- Digital calibration and Set-Up from keypad or from PC through DINITOOLS.
- Power supply through built-in rechargeable battery, with 60h operating time, and fitted with external battery charger (to not use as power adaptor).

## **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
  - Piece counter
  - Hold

The “alibi memory” function is available in combination with the required operating mode and it is activated automatically when installing the relevant optional board.


- Optional functions:
  - PEAK, detection of weight peaks (code DFWPK)
  - Newton to Kg converter (code DFWPK)

- 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 versions

Code	Description
DFWLB-3	IP68 weight indicator with built-in rechargeable battery. ABS case, 5-key keypad, backlit LCD display.




#### Available versions with UK power cord

Code	Description
DFWLBUK	IP68 DFWLB-3 weight indicator with built-in rechargeable battery. ABS case, 5-key keypad, backlit LCD display. Power supply cord with BS1363 plug (UK plug).




#### Available firmwares

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



#### Approval for sale to third parties

Code	Description
<a href="#">KCEM</a>	Plates and Welmec form for legal trade use of a scale. NET PRICE. Service available in combination with a Dini Argeo indicator.



#### Power supply

Code	Description
PWNIMHUK-1	Power supply with BS1363 UK plug for NiMH battery charger

#### Junction Box / Boards - Load Cell cables

Code	Description
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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.

### Storing the weighs

Code Description



[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).

### Printers/Labellers

Code

Description



[OBTPRB](#)

(S1) Thermal printer in table version. For weight indicator, with IP40 ABS case, 1,5 m connection cable and internal power adapter.



[LP542S](#)

(S1) Direct thermal labeller.



[LP542TT](#)

(S1) Thermal transfer or direct thermal labeller. Peel-off kit in option.



[SMTPLUSPRO](#)

(S1) Thermal transfer or direct thermal 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.

CNFSEV Custom-made printouts for DFW and DFWL series. NET price.  
 Communication Interfaces

Code Description

[RSCBUSB-1](#) USB PC/RS232 converter cable, l=1,5m. USB/RJ11 connector.



[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.



[BLTH-2](#) (S1) Built-in bluetooth interface. For wireless connection to the portable PC or PDA. Weighing app downloadable from Google Play.



[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).



RS485C (S1) Built-in RS485 interface (mounting and cable gland excluded).



Connection cables

Code Description

RSCBRJ (S1) RS232/C serial cable - DB9/RJ11 - l=1,5m.



RSCBRJ10M (S1) RS232/C serial cable - DB9/RJ11 - l=10m.



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).



Columns, supports brackets, visors

Code Description



**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.

#### Weight repeaters

Code	Description
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<a href="#">DGT100R-1</a>	Weight repeater with 100mm LED display. IP68 stainless steel case, 5-key keypad, air valve for regulating the humidity and the pressure.
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#### Remote control

Code	Description
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<b>DFTL12-1</b>	(S1) 19-keys remote control and infrared receiver kit (max 8m).
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<b>IR8M</b>	Infrared input for IR remote control.
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#### Weight repeater software

Code	Description
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<b>MSTSLV</b>	Program for using the indicator as a repeater. It must be combined with the DFW and DGT weight indicators.
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#### Options for ATEX version

Code	Description
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<a href="#">ZBA1S</a>	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).
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[KZBA](#)

ATEX ABS housing kit with Zener Barrier ZBA1S for load cells. For intrinsically safe weighing systems in a dangerous 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).



[DCATEXMB4](#)

ATEX declaration for the whole system with Dini Argeo Zener barriers. Ex II 2G IIC T6 Gb X and II 2D III 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).



[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 dangerous 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.



[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, 6x0,22mm<sup>2</sup> cable, for EX i (2GD) applications. €/m

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 metallic IP68 from PG9 to PG11 adapters (ø max cable 12mm)





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

#### Other options

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 €.

#### DOWNLOAD

- [ADV\\_CONF\\_ENG\\_DFW\\_v4.pdf](#)
- [DiniTools\\_4.21.10.zip](#)
- [EC\\_TEST\\_CERTIFICATE\\_GB-1461\\_Rev13.pdf](#)
- [EU\\_TYPE\\_EXAMINATION\\_CERTIFICATE\\_UK2931\\_Rev\\_6.pdf](#)
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- [TECH\\_DRAWING\\_DFWLB.pdf](#)
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- [Last Firmware Revision News](#)

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