

DFWATEX3GD Weight Indicator for ATEX 2 & 22 Zones



As of: Thursday, March 19, 2026



Standard Features

- Waterproof 17-key functional keypad.
- Backlit LCD display with 6 25-mm high contrast digits and with indication of active functions.
- **IP68** Satin finish stainless steel case.
- Suitable for use on the table, or wall.
- Dimensions: 264x174x115mm.
- Up to 10.000e or multirange 3 x 3000e @ 0,3 μ V/e in CE-M approved version for legal for trade use.
- Up to 1.000.000 displayable divisions for internal factory use.
- Up to **8 signal linearization points** with DINITOOLS (3 from keypad).
- Internal resolution up to 3.000.000 points.
- A/D 24-bit sigma-delta conversion, up to 200 conv./sec. autoselect.

- Board protection case inside the box.
- Digital calibration and set-up from keyboard.
- Instrument management & configuration from PC with DINITOOLS.
- 4 channels (for single weighing system).
- Power supply:DFWATEX3GD: through 110-240Vac internal power adapter (optional power supply cable);DFWATEX3GDB: through optional external battery (BP6ESTATEX3GD code), rechargeable in safe area. Battery charger not included.
- Connection with up to 8 load cells with 350 Ohm input resistance.

Weight indicator for areas classified as hazardous with protection methods according to:

- ATEX II 3G Ex nR IIC T6 Gc X for gases
- ATEX II 3D Ex tc IIIC T85°C Dc IP68 X for dust.
- Ideal for creating weighing systems, batching, and automation systems. CE-M approvable (OIML R-76 / EN 45501).

DFWATEX3GD Specifications

I/O Section

- RS232/C port configurable for connection to printer/labeller in safe zone.
- RS232/C (or optionally RS485) bi-directional port configurable for PC, PLC, additional remote display, in safe zone.

Main Certifications

- EU Type Examination Certificate (45501:2015)
- OIML R76
- Australian legal for trade certificate of approval (NMI S788)

Master/Repeater Option:

- Specific programme (**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 weights of all the scales.
- UNIVERSAL weight repeater function which allows to repeat the weight of any scales, through the configuration of the input string.

Functions:

- **KEYBOARD:**
Zeroing, Automatic tare, Presetable tare, printing and/or data transmission, selectable function command, on/off switching, database of 20 tares, 2 Numeric IDs, keyboard lock, repetition of last printout made.
- **SELECTABLE FUNCTIONS:**
 - High Resolution Weighing x 10.
 - Net/Gross or lb/kg conversion.
 - Accumulation.
 - Formula weighing.
 - +/- Checkweighing.
 - Percentage weighing.
 - Approved transmission of the weight to PC/PLC (with Alibi memory ALMEM option).
 - Counting(Max. resolution of 1.500.000 divisions).
 - In/Out Truck weighing.
 - Hold.
 - Set Point Control (with DFIO option).

Parts

Part #	Description
---------------	--------------------

Available Versions

DFWATEX3GD-1	IP68 stainless steel, ATEX 3GD indicator with internal power adapter. 17-key keypad, LCD backlit display, and standard weighing programme. Protection: ATEX II 3G Ex nR IIC T6 Gc X for gases and ATEX II 3D Ex tc IIIC T85°C Dc IP68 X for dust. Complete with manual and ATEX CE Conformity declaration, available in EN, DE, FR, and IT.
---------------------	---

DFWATEX3GDB-1	ATEX 3GD indicator, to be combined with BP6ESTATEX3GD, BP6CB and BTCB3GD options. IP68 stainless steel case, 17-key keypad, LCD backlit display, and standard weighing programme. Protection: ATEX II 3G Ex nR IIC T6 Gc X for gases and ATEX II 3D Ex tc IIIC T85°C Dc IP68 X for dust. Complete with manual and ATEX CE Conformity declaration, available in EN, DE, FR, and IT.
----------------------	--

Options

Part # Description

Optional Power Supply Cords

EXACB4 4x0.5 mm² armoured cable (suitable for Ex zones). PVC inner sheath. Armour: galvanised steel wire braid. Outer sheath PVC, diameter 7.3 mm. Temperature range: -30 / +80 °C. Minimum bending radius $\geq 10 \times$ O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).

Junction Box / Boards - Load Cell Cables

JB4QA ATEX equalisation box made of ABS IP67, for up to 4 cells. 4 + 1 fairleads. Marking: ATEX II 2G Ex ib IIC T6 Gb for gases, ATEX II 2D Ex tb IIIC T115°C Db IP65 for dust. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).

JB4QAI ATEX equalisation box made of stainless steel IP66 for up to 4 cells. 4 + 1 fairleads. Marking: ATEX II 2G Ex ib IIC T6 Gb for gases, ATEX II 2D Ex tb IIIC T115°C Db IP65 for dusts. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).

LCCB Shielded cable 6x0.25 mm² (suitable for Ex zones). PVC inner sheath. Tinned copper braid shielding. PVC outer sheath, diameter 5.8 mm. Temperature range: -40 / +80 °C. Minimum bending radius $\geq 6 \times$ O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).

LCCBA Armoured cable 6x0.25 mm² (suitable for Ex zones). PVC inner sheath, diameter 5mm. Iron-zinc alloy armour. Transparent PVC outer sheath, 8 mm diameter. Temperature range: -15 / +70 °C. Minimum bending radius $\geq 5 \times$ O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).

ATEX battery and battery charger

BP6ESTATEX3GD IP65 stainless steel, external ATEX battery pack, for 2 and 22 zones. Marking: ATEX II 3G Ex ec IIC T6 Gc X for gas and ATEX II 3D Ex tc IIIC T85°C Dc IP65 X for dust. For Dini Argeo ATEX 3GD instruments. ATTENTION: rechargeable in safe zone only, connectable and disconnectable from the weighing system also in hazardous area. (Battery charger not included).

BTCB3GD Cable for BP6ESTATEX3GD battery connection. (indicator side).

BP6CB Battery charger for safe area, for BP6ESTATEX3GD ATEX battery.

Declaration of ATEX Conformity

DCATEX3GD Declaration of ATEX conformity of whole. Ex II 3G IIC T6 Gc X and Ex II 3D IIIC T115°C Dc X system, with relative label of whole system, for ATEX certified or NOT ATEX certified Dini Argeo indicator (in the latter case to be installed in a safe area) connected to a mechanical structure with ATEX load cells (each load cell must be certified with CCATEX or CCATEX3GD option). Provided with descriptive document of the assembly and ATEX EU declaration of conformity of the assembly (EN, DE, FR, ES and IT). Includes IP68 connection between platform and weight indicator.

Approval for Sale to Third Parties

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

Part #	Description
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 €.
ECEM-AU	Single platform/scale legal-for-trade approval for Australia.

Date & Time Option

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

Storing Weighments

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

PC Software for Managing Weighbridges

WEITRUCK-1	PC software for vehicle weighing. It can be combined with DFW, DGT and 3590 series' weight indicators. Databases to store customer, material and vehicle data, management of the totals and programmable printouts. Alibi Memory is required for DFW/DGT (3590 series is equipped with alibi memory as standard).
-------------------	---

Communication Interfaces

ETHD	Built-in Ethernet interface. Speed from 10 to 100 Mbps, TCP, UDP, IP, ARP, ICMP, Ethernet Mac protocols.
ALMEM-1	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, it requires FW 05.00.02 or higher. Not compatible with weight repeaters.
OBRF2G4-3GD	2.4 GHz radio frequency module for ATEX 2 & 22 zones. ABS IP66 case, 3 m shielded cable, and power supply from indicator. Protection: ATEX II 3G Ex ec IIC T6 Gc X for gases and ATEX II 3D Ex tc IIIC T85°C Dc IP66 X for dust. Max. functioning distance, in appropriate environmental and installation conditions: 45 m indoors, 140m outdoors. 39 configurable channels. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR and IT).
OBWIFI3GD-5	WIFI module for ATEX zones, with ABS IP66 case, 3 m shielded cable, and power supply from indicator. Protection: ATEX II 3G Ex ec IIB T6 Gc X for gases and ATEX II 3D Ex tc IIIC T85°C Dc IP66 X for dust. Max. functioning distance, in appropriate environmental and installation conditions: 30m indoors, 70m outdoors. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR and IT).

DF485	RS485 bidirectional port for DFW series.
WPAN-CL	Classic WPAN device, complete with AMP cable and integrated antenna.

Digital Input / Output

DFIO3GD-1	ATEX 3GD built-in 2 IN/6 OUT interface (requires FW 05.05.00 or higher).
DAC160-2	Built-in optoisolated analog output, 0-4/20 mA, 0-10VDC (cable gland excluded). For DFW, 3590 and CPW indicators. Output -10/+10VDC upon request, only at time of order. NOTE: For 3590, IOEXPB option board is required, available depending on the model.

Part #	Description
--------	-------------

ATEX 2GD Remote Button Control

EXPHBN	EX 2GD hand control with 2 buttons and cable gland (optional connection cable). Protection II 2G Ex db eb IIC T6 Gb for gases, II 2D Ex tb IIIC T80°C Db for dust.
---------------	--

EXACB4	4x0.5 mm ² armoured cable (suitable for Ex zones). PVC inner sheath. Armour: galvanised steel wire braid. Outer sheath PVC, diameter 7.3 mm. Temperature range: -30 / +80 °C. Minimum bending radius >= 10 x O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
---------------	---

Printers / Labelers for Safe Zones

OBTPRB	Table thermal printer. For weight indicator, with IP40 ABS case, 1,5 m connection cable and internal power supply. Thermal paper roll included as standard.
---------------	---

CODEPG	Service for loading a customised code-page on TPR printer (standard is PC437 - Central Europe, USA)
---------------	---

Connection Cables

RSCBTW	4-core twisted shielded cable (2x2x0.34 mm ²), for RS485 communication or analogue output. Polyolefin inner sheath. Tinned copper braid shielding. Outer sheath PVC, diameter 7mm. Temperature range: -30 / +80 °C. Minimum bending radius >= 6 x O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
---------------	---

ETHCBEX	Multi-core cable (4x2xAWG24) suitable for Ethernet connections in Ex-zones (connectors and cable gland only installed with S6 service). First shield: aluminium/polyester tape, second shield: tinned copper braid (coverage = 85% - EMC 89/336). Outer sheath: PVC, diameter 6.3mm. Temperature range: -30 / +80 °C. Minimum bending radius >= 8 x O.D. Minimum length 10 m. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
----------------	--

ETHCBEX10M	ETHCBEX cable complete with cable gland and connectors. Length 10 m.
-------------------	--

Columns, Supports Brackets, Visors

STFI-1	AISI 304 stainless steel fixing bracket. For weight indicator wall mounting.
---------------	--

STFR-1	AISI 304 stainless steel fixing bracket with adjustable inclination. For weight indicator wall mounting.
---------------	--

STFA12	Stainless steel bracket for mounting the ATEX battery on column. Compatible with "DFWBP76ATEX..", "IECEXB", "BP6ESTATEX3GD.." and "BP6V12A".
---------------	--

CSP38I-1	AISI 304 stainless steel column 450x450mm, h=917mm, Ø 38mm. For the indicators of the DINI ARGEO and SCALE HOUSE range.
-----------------	---

Weight Repeater Software

MSTSLV	Program to use the indicator as a repeater. It must be combined with the DFW and DGT weight indicators.
---------------	---

Weight Repeaters

DGT60R3GD-2	ATEX 3GD weight repeater with 60mm LED display. IP68 stainless steel case and 5-key keypad. Protection mode: ATEX II 3G Ex nR IIC T6 Gc X for gases and ATEX II 3D Ex tc IIIC T85°C Dc IP68 X for dust. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
--------------------	--

Part #	Description
--------	-------------

Zener Barriers for Load Cells

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. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
--------------	--

ZBINST	Installation of the ZBA1S / PFB485EX zener barrier inside the indicator case. Note: The cable (LCCB for barrier ZBA1S, RSCBTW for barrier PFB485EX) of the desired length must also be purchased. NET PRICE.
---------------	--

LCCB	Shielded cable 6x0.25 mm ² (suitable for Ex zones). PVC inner sheath. Tinned copper braid shielding. PVC outer sheath, diameter 5.8 mm. Temperature range: -40 / +80 °C. Minimum bending radius $\geq 6 \times$ O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
-------------	--

PFB485EX	Protection barrier for RS485, for direct connection in safe area. Max cable length: 200m.
-----------------	---

RSCBTW	4-core twisted shielded cable (2x2x0.34 mm ²), for RS485 communication or analogue output. Polyolefin inner sheath. Tinned copper braid shielding. Outer sheath PVC, diameter 7mm. Temperature range: -30 / +80 °C. Minimum bending radius $\geq 6 \times$ O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
---------------	--

KZBA-1	ATEX ABS housing kit with Zener Barrier ZBA1S for load cells. For intrinsically safe weighing systems in a dangerous zone. Dimensions 179x359x166,5mm. Marking of housing + Zener Barrier ZBA1S: ATEX II 3(1)G Ex nA [ia Ga] IIC T4 Gc X for gas, ATEX II 3(1)D Ex tc [ia Da] IIIC T135°C Dc IP66 X for dust. Provided with safety instructions and the ATEX EU declaration of conformity (EN and IT).
---------------	--

KMB4-1	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. Provided with safety instructions and the ATEX EU declaration of conformity (EN and IT).
---------------	--

PG Cable Glands

PG7EX	10 PG7 metallic cable gland set for ATEX indicators. Complete with ferrules and seals. Cable diameter: 3 to 6.5 mm.
--------------	---

PG9EX	10 PG9 metallic cable gland set for ATEX indicators. Complete with ferrules and seals. Cable diameter: 4 to 8 mm.
--------------	---

Other Options

TECSUP	Technical assistance by telephone upon request.
---------------	---

Dini Argeo S.r.l. | Via della Fisica, 20 - 41042, Spezzano di Fiorano, Modena (MO), Italy | Tel.:
+39 0536 843418

www.diniargeo.com