

DFW ATEX2GD Weight Indicator for ATEX 1 & 21 Zones

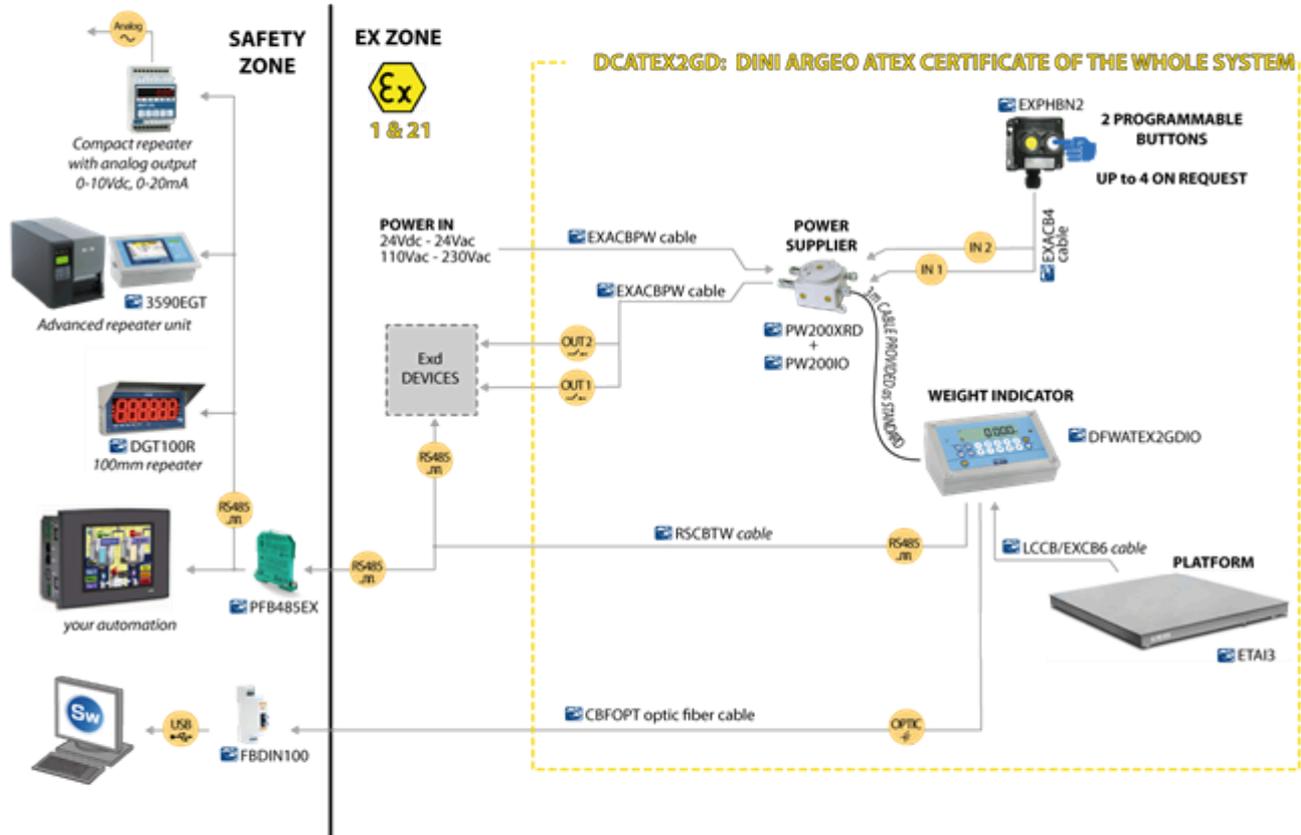


Standard Features

- Waterproof 17-key numerical and functional keyboard.
- LCD display with 6 25-mm high contrast digits, clearly visible even in poor lighting conditions and with low temperatures, and with 6 LEDs for showing the active functions.
- AISI 304 stainless steel casing, with IP65 certified protection and IP68 performance.
- Dimensions 264x174x115mm.
- Suitable for use on the table, or wall.
- 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 with internal resolution up to 3.000.000 points.

- Up to 8 signal linearization points with DINITOOLS (3 from keypad).
- A/D 24-bit sigma-delta conversion, up to 200 conv./sec. autoselect.
- Digital calibration and set-up from keyboard; Instrument management & configuration from PC with DINITOOLS.
- Power supply through external module: with optional battery pack; or with optional power adapter connectable to mains at 230 Vac or at 24 Vdc.
- Connection with up to 4 load cells having 350 Ohm input resistance.

Weight indicator for areas classified as hazardous with protection methods according to:
 ATEX II 2(2)G Ex ib [ib Gb] IIC T4 Gb for gases, ATEX II 2(2)D Ex tb [ib Db] IIIC T197°C IP65 Db for dust.
 Ideal for creating weighing systems, batching, and automation systems. EC-Type-Examination certificate according to Annex III (ATEX directive). CE-M approvable (OIML R-76 / EN 45501).



DFW ATEX2GD Weight Indicator for ATEX 1 & 21 Zones Specifications

I/O Section (Only with DFWATEX2GDIO Model):

- Fiber optic bidirectional port for connection with printer, labeller, PC, or PLC in safe area.
- 4 logic inputs and 4 barriered digital outputs, connectable to other intrinsic safety devices in a hazardous area (only with the DFWATEX2GDIO version combined with PW200XRDxxx and PW200IO options).

Functions:

- **SCALE FUNCTIONS**
 - Zeroing
 - Automatic Tare
 - Presetable Tare
 - ID1 and ID2 10-digit Codes
 - Print and data transmission commands
 - selectable function command
 - on/off switching.
- **SELECTABLE FUNCTIONING MODES**
 - High Resolution Weighing x 10
 - Net/Gross or lb/kg conversion
 - Accumulation
 - Formula weighing
 - +/- Checkweighing
 - Counting (Max. resolution of 1.500.000 divisions).
 - In/Out Truck weighing
 - Hold
 - Peer-to-peer (up to 4 remote connectable indicators).
 - Set Point Control (only in the DFWATEX2GDIO version combined with PW200XRDxxx and PW200IO options).
 - MODBUS serial protocol.

Main Certifications:

- OIML R76
- Australian legal for trade certificate of approval (NMI S788)

Parts

Part #	Description
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Available Versions

DFWATEX2GD-1	IP68 stainless steel, ATEX 2GD indicator. 17-key keypad and LCD display. Protection mode: ATEX II 2(2)G Ex ib [ib Gb] IIC T4 Gb for gases and ATEX II 2(2)D Ex tb [ib Db] IIIC T197°C IP65 Db for dust. Complete with manual and DECLARATION OF CONFORMITY. To be combined always with the PW200XRDxxx series' power adapter or DFWBP76ATEX battery. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
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DFWATEX2GDIO-1	IP68 stainless steel, ATEX 2GD indicator fitted with I/O section. 17-key keypad and LCD display. Protection mode: ATEX II 2(2)G Ex ib [ib Gb] IIC T4 Gb for gases and ATEX II 2(2)D Ex tb [ib Db] IIIC T197°C IP65 Db for dust. Complete with manual and DECLARATION OF CONFORMITY. To be combined always with the PW200XRDxxx series' power adapter. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
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Options

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

Declaration of ATEX Conformity

DCATEX2GD	Declaration of ATEX conformity of the assembly. Ex II 2G IIC T4 Gb X and Ex II 2D IIIC T197°C Db X SYSTEM, with relative label of whole system, for Dini Argeo ATEX weight indicator connected a mechanical structure with ATEX load cells (each cell must be certified with CCATEX option). Provided with descriptive document of the assembly and ATEX EU declaration of conformity of the assembly (EN and IT). Includes IP68 connection between platform and weight indicator.
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Power Supply and INPUT/OUTPUT for DFWATEX2GD

PW200XRD24D-1	ATEX power supplier with 24 Vdc input. 10,5 Vdc intrinsically safe output, complete of Exd case, with protection modes: ATEX II 2(2)G Ex d [ib Gb] IIC T4 Gb and ATEX II 2(2)D Ex tb [ib Db] IIIC T140°C Db. Equipped with connecting cable between PW200XRDxxx and DFWATEX2GDxxx with a length of 3 m. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
PW200XRD24A	ATEX power supplier with 24 Vac input. 10,5 Vdc intrinsically safe output, complete of Exd case, with protection modes: ATEX II 2(2)G Ex d [ib Gb] IIC T4 Gb and ATEX II 2(2)D Ex tb [ib Db] IIIC T140°C Db. Equipped with connecting cable between PW200XRDxxx and DFWATEX2GDxxx with a length of 3 m. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
PW200XRD115-1	ATEX power supplier with 115 Vac input. 10,5 Vdc intrinsically safe output, complete of Exd case, with protection modes: ATEX II 2(2)G Ex d [ib Gb] IIC T4 Gb and ATEX II 2(2)D Ex tb [ib Db] IIIC T140°C Db. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
PW200XRD230-1	ATEX power supplier with 230 Vac input. 10,5 Vdc intrinsically safe output, complete of Exd case, with protection modes: ATEX II 2(2)G Ex d [ib Gb] IIC T4 Gb and ATEX II 2(2)D Ex tb [ib Db] IIIC T140°C Db. Equipped with connecting cable between PW200XRDxxx and DFWATEX2GDxxx with a length of 3 m. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
PW200IO	Set of 2 ATEX cable glands for PW200XRDxxx. For the use of the INPUT/OUTPUT section on DFWATEX2GDIO or DFWATEX2GDF.
PW200IO-1	Set of 2 ATEX cable glands for PW200XRDxxx-1. For the use of the INPUT/OUTPUT section on DFWATEX2GDIO or DFWATEX2GDF.
EXACBPW	4x1 mm ² armored cable (suitable for Ex zones). PVC compound inner sheath. Armor: galvanized steel wire braid. Outer sheath made of PVC compound, diameter 8.8 mm. Operating temperature: -30 / +80 °C. Minimum bending radius $\geq 10 \times \text{O.D.}$ €/m. Maximum orderable length: 100 m (longer lengths available only upon request).

ATEX battery and battery charger

Part #	Description
DFWBP76ATEXD	Rechargeable ATEX battery, for 1 & 21 zones. If used with DFWATEX weight indicator this battery needs the BTCB2GD optional cable.
BTCB2GD	Cable for DFWBP76ATEXD battery connection.
DFWBPAL-2	Battery charger for safe area, for DFWBP76ATEXD ATEX battery.
STFA12	Stainless steel bracket for mounting the ATEX battery on column. Compatible with "DFWBP76ATEX..", "IECEXB", "BP6ESTATEX3GD.." and "BP6V12A".

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 $\geq 10 \times \text{O.D.}$ €/m. Maximum orderable length: 100 m (longer lengths available only upon request).

Communication Interfaces

ALMEMATEX	Alibi memory for ATEX 2GD indicator (fiscal memory, max 120.000 weighs) for approved transmission of the weight to PC/PLC (to be used with DFWATEX2GDIO).
DF485EX	ATEX RS485 port, for DFWATEX2GDF and DFWATEX2GDIO.
WPAN-CL	Classic WPAN device, complete with AMP cable and integrated antenna.

Optical Fibres and Converter

CBFOPT	Synthetic optical fibre cable. €/m (min. 10m). Maximum orderable length: 100 m (longer lengths available only upon request). Caution: requires one CNFOPT fibre optic connector set.
CNFOPT	Set of connectors for optical fibre cable for connection of the indicator to the fiber optic/RS232 converter.
FBDIN100	Optical fibre/RS232 converter for DIN bar, for synthetic optical fibre. The maximum length is 100m (greater lengths upon price estimate). For the connection with PC, PLC.

Connection Cables

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 $\geq 10 \times \text{O.D.}$ €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
EXACBPW	4x1 mm ² armored cable (suitable for Ex zones). PVC compound inner sheath. Armor: galvanized steel wire braid. Outer sheath made of PVC compound, diameter 8.8 mm. Operating temperature: -30 / +80 °C. Minimum bending radius $\geq 10 \times \text{O.D.}$ €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
EXCB6	Blue shielded cable 6x0.22 mm ² , only for EX i (2GD) assemblies. PVC inner sheath. Tinned copper braid shielding. Polyurethane outer sheath, diameter 5.8 mm. Temperature range: -40 / +80 °C. Minimum bending radius $\geq 7 \times \text{O.D.}$ €/m. Maximum orderable length: 100 m (longer lengths available only upon request).

Part #	Description
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).
LCCBA	Armoured cable 6x0.25 mm ² (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).
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).

Analog Output

PFB485EX	Protection barrier for RS485, for direct connection in safe area. Max cable length: 200m.
DGT1SAN	Weight transmitter on DIN bar, with 2 INPUT, 2 OUTPUT and analog output. Fitted with 5-key keypad and LED display. Multifunction weighing program.
MSTSLV	Program to use the indicator as a repeater. It must be combined with the DFW and DGT weight indicators.
191750	Cable,Fieldbus option WE503

Repeater for ATEX Zone

MSTSLV	Program to use the indicator as a repeater. It must be combined with the DFW and DGT weight indicators.
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RS485 Barriers

PFB485EX	Protection barrier for RS485, for direct connection in safe area. Max cable length: 200m.
ZBPWR24	Power supply specific for ZB485 active barrier.
ZB485	RS485 active barrier. Mark: ATEX II (1) GD [Ex ia] IIC, I (M2) [Ex ia] I, II 3G Ex nA II T4, [Ex ia] IIC. 24Vdc power supply not included, we recommend the combination with ZBPWR24.

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).
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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).
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Columns, Supports Brackets, Visors

Part #	Description
STFI-1	AISI 304 stainless steel fixing bracket. For weight indicator wall mounting.
STFA12	Stainless steel bracket for mounting the ATEX battery on column. Compatible with "DFWBP76ATEX..", "IECEXB", "BP6ESTATEX3GD.." and "BP6V12A".
STFR-1	AISI 304 stainless steel fixing bracket with adjustable inclination. For weight indicator wall mounting.
CSP38I-1	AISI 304 stainless steel column 450x450mm, h=917mm, Ø 38mm. 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.

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

VENTX	ATEX Valve for regulating humidity and pressure inside the indicator. Advised for IP68 applications.
TECSUP	Technical assistance by telephone upon request.

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