

3590E XT Enterprise 3GD Series Weight Indicator for Advanced Applications in ATEX 2 & 22 Zones



As of: Thursday, March 19,
2026



Standard Features

- 25-key alphanumerical waterproof keyboard.
- Highly efficient red LED display with 6 digits 15mm high.
- **Backlit LCD graphic 25x100mm display.**
- Synoptic bar graph with 16 bright LEDs showing the active functions.
- Easy to clean **STAINLESS STEEL waterproof IP68** enclosure; resistant to harsh and corrosive environments.
- Dimensions: 264x115x174 mm.
- Suitable for use on the table, column, or wall.
- Real time clock and permanent data storage.
- Fitted with alibi memory, integrated on the motherboard.
- **Functions available with DINITOOLS utility**
 - Configuration, calibration, data entry and print formatting.

- Recording and filing of all the information on PC.
- Complete retrieval of the saved data for quick replacement.
- Instrument calibration with numeric values.
- Selection of the programme language directly in the set-up.
- 24-bit A/D converter, 4 channels, up to 3200 conv./sec. and up to 8 signal linearisation points.
- Up to 10.000e OIML or 3 x 3000e @ 0,3 μ V/e CE-M legal for trade.
- Up to 1.000.000 displayable divisions for internal factory use, with internal resolution up to 3.000.000 points.
- 110-240 Vac power supply.
- Management of up to 4 independent scales (up to 2 for the AF03 version).
- Connectable with up to 16 analogue 350-Ohm (or 45 1000-Ohm) load cells.
- Connectable to printers and labellers with the command drivers.

ATEX Classified Weight Indicator

Weight indicator for ATEX areas classified at risk of explosion 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.

The wide range of available software program guarantees the maximum versatility. Completely programmable printouts and fitted with alibi memory. CE-M approvable (OIML R-76 / EN 45501).

3590E Enterprise 3GD Specifications

I/O Section:

- Two RS232 serial ports, for connection to printer (in safety zone), PC or PLC.
- One RS232/RS485 serial port, for connection to printer (in safety zone), PC or PLC.
- 4 optoisolated outputs (16 in the IO versions).
- 2 optoisolated inputs (8 in the IO versions).
- Profibus interface to install in safety zone (available upon request for E-AF01 and E-BATCH1 versions).
- Analogue output with D/A converter at 16 bit, 0-10Vdc, 0-20mA, 4-20mA (available upon request for the IO versions).

Main Certifications:

- EU Type Examination Certificate (45501:2015)
- OIML R76
- OIML R51 - MID
- OIML R134 (AF09)
- Australian legal for trade certificate of approval (NMI S788)

Parts

Part

Description

Available Versions

3590EXT01BC3GD

ATEX 3GD indicator with AF01 software. Stainless steel IP68 case, 25-key keypad, LED display and graphic LCD display. Protection degree: 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).

3590EXT01BCIO3GD

ATEX 3GD indicator with AF01 software, 16 outputs and 8 inputs. Stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display. Protection degree: 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).

3590EXT03BC3GD

ATEX 3GD indicator with AF03 software. Stainless steel IP68 case, 25-key keypad, LED display and LCD display. Protection degree: 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).

3590EXTBATCH1BC3GD

ATEX 3GD indicator with BATCH1 software. Stainless steel IP68 case, 25-key keypad, LED display and graphic LCD display. Protection degree: 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).

3590EXTBATCHBCIO3GD

ATEX 3GD indicator with BATCH software, 16 outputs and 8 inputs. Stainless steel IP68 case, 25-key keypad, LED display and graphic LCD display. Protection degree: 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).

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).

Software to Fill in the Databases

DBM PC software for quick filling out of the databases. For 3590Exx and CPWExx instruments (the price is intended for the license to manage one scale).

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).

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.

ECEM-AU Single platform/scale legal-for-trade approval for Australia.

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).

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

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

Declaration of ATEX Conformity

Part #	Description
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.

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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Communication Interfaces

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).
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ETHD	Built-in Ethernet interface. Speed from 10 to 100 Mbps, TCP, UDP, IP, ARP, ICMP, Ethernet Mac protocols.
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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).
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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 $\geq 6 \times$ O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
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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 $\geq 8 \times$ O.D. Minimum length 10 m. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
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ETHCBEX10M	ETHCBEX cable complete with cable gland and connectors. Length 10 m.
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Digital Input / Output

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.
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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.
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Part #	Description
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 $\geq 10 \times$ 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)
LP542TE	Thermal transfer or direct thermal labelling machine Supplied with standard peel mechanism. Maximum printing size 25400 x 108 mm. Maximum roll Ø 127 mm and width up to 112 mm. Label roll and ribbon not included.
SMTPLUS-2	Thermal transfer or direct thermal labeller. Peel-off kit in option. Maximum print size 25400 x 108 mm. Maximum roll Ø 203 mm and width up to 118 mm. Label roll and ribbon not included.
PRNSERV	Custom-made ticket (up to 4 layouts). NET price.
APRNSERV	Custom-made label (up to 4 layouts). NET price.

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.

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).

Part #	Description
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.
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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