DINI ARGEO

A RICE LAKE WEIGHING SYSTEMS COMPANY

3590EGT-IECEX3GD

3590EGT-IECEX3GD "TOUCH" : TOUCH SCREEN INDICATOR FOR Ex 2 & 22 ZONES



Weight indicator with a big touch screen display, for ATEX 2 & 22 hazardous zones.
ATEX/IECEX marking:
II 3G Ex nR IIC T6 Gc X (0°C<= Ta <=50°C) for gases
II 3D Ex tc IIIC T85°C Dc IP65 X (0°C<= Ta <=50°C) for dust.
ATEX/IECEX marking with intrinsically safe connection for load cells:
II 3G Ex nR [ia] IIC T6 Gc X (0°C<= Ta <=50°C) for gases.
II 3D Ex tc [ia] IIIC T85°C Dc IP65 X (0°C<= Ta <=50°C) for dust.
Suitable for advanced industrial applications, it's fitted with 3 serial ports, Ethernet communication port, configurable printouts and integrated alibi memory.
CE-M approvable (OIML R-76 / EN 45501).

The best solution for advanced industrial applications

WHAT'S NEW

- IECEx certification.
- New enclosure with screwless front closure for easy cleaning of the indicator.
- PG7 and PG9 cable glands with adapters for 4 to 7 mm and 7 to 10 mm cable routing. Equipped with anti-friction system that does not require additional external cable fixing, as required by the IECEx scheme and ATEX directives.
- Available in specific version for direct connection to load cells installed in zone 1/21 and 0/20.

TECHNICAL FEATURES

- 5,7' colour touch screen display.
- Multilanguage software.
- 15-key alphanumerical waterproof keyboard.
- 3-way control light.
- Selectable QWERTY, AZERTY or QWERTZ keyboard integrated in the touch screen.
- Stainless steel waterproof enclosure, with new IP68 protection system.
- Dimensions: 280x143x185mm.
- Suitable for use on the table.
- Real time clock and permanent data storage.
- Alibi memory as standard, integrated on the motherboard.
- Slot for built-in micro SD to record the configuration, logos, and customized screens (upon request).
- Functions available with DINITOOLS utility
  - Configuration, data entry and print formatting.
  - Recording and filing of all the information on PC.
  - Complete retrieval of the configuration.
  - Instrument calibration with numeric values.
  - Customization of the screens.
- 24-bit A/D converter, 4 channels, up to 3200 conv./sec. with automatic frequency selection and up to 8 signal linearisation points.
- 4 independent analogue channels for weight reading (up to 2 in E-AF03 version).
- Connection with up to 16 analogue load cells of 350 Ohm (45 load cells of 1000 Ohm).
- Up to 10.000e OIML or multi-range 3 x 3000e @ 0,3 µV/d 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.
- Connectable to printers and labellers with free programming of the printout formats.
- Power supply from 110-240Vac line or 12-24 Vdc Max. 25.2W

COMPLETE PROGRAMMABLITY FOR CUSTOMISED APPLICATIONS

- Thanks to the integrated development area, fully customised applications can be created independently:
  - Specific weighing softwares according to customer requirements
  - Tailor-made weighing softwares to replace terminals in existing installations
  - Wizards, messaging for the operator
  - Serial port management, protocol customization
  - Complete digital I/O management
  - Sequential or simultaneous automations
  - Data entry, tailor-made archives

Dini Argeo also offers the service of software development (to be quoted).

STANDARD APPLICATIONS

- SUPPLIED AS STANDARD:
- AF01: Totalization and formula weighing

OPZIONALI:

- AF02: Piece/quantity counting
- AF03: Weighbridges - Vehicle In/Out
- AF04: Statistical check of prepackaged goods
- AF05: Price computing and industrial labelling
- AF08: Static wheel and axle weighing with 2 or more pads
- AF09: Software for dynamic or static axle weighing with 1 or 2 pads
- BATCH1: Single product dosage systems in loading and unloading
- BATCH: Software for multicomponent dosage systems in loading and unloading (requires IOEXPB expansion board)

I/O SECTION

- 2 RS232 serial ports on terminals, for connection to printer, PC, radio module and optional interfaces.
- 1 RS485/RS232 serial port on terminals, for connection to weight repeater,remote scale, badge readers or digital load cells.
- 4 serial optoisolated outputs, up to 16 with optional board.
- 2 serial optoisolated inputs, up to 8 with optional board.
- Profibus or Modbus/TCP interface to install in safety zone.
- External Profinet, Ethernet/IP, EtherCAT, CANopen and DeviceNet interface to install in safety zone. (optional, only with standard AF01 weighing program).
- Modbus RTU Interface.
- Optional Bluetooth connection, for fast wireless programming of archives, via PC, tablet or smartphone.
- Analog output DAC16O requires IOEXPB expansion board.

CUSTOMIZABLE DISPLAYS

- Thanks to the programmable Touch Screen display, it is possible to create the interface tailored to each application:



- The PC software "Dini Display Tool" allows for the quick customisation of the TOUCH display.



MAIN CERTIFICATIONS

- EU Type Examination Certificate (45501:2015)
- OIML R76
- OIML R51 - MID
- OIML R134 (AF09)
- EN/IEC 60079-0
- EN/IEC 60079-11 (ZB version)
- EN/IEC 60079-15
- EN/IEC 60079-31
- Australian legal for trade certificate of approval (NMI S788)
- Certification according to ATEX directive 2014/34/EU and in compliance with IECEx scheme, group II category 3GD according to EN/IEC 60079-0, EN/IEC 60079-11, EN/IEC 60079-15, EN/IEC 60079-31.


IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

View the certificate

AVAILABLE LANGUAGES

- Menu selectable languages:
  IT, EN, FR, DE, ES, PT, PL*

  * Polish available only on EGT-AF01, EGT-AF02, EGT-AF03, EGT-AF04, EGT-AF09, EGT-BATCH, EGT-BATCH1

  Code pages available for the translation of messages and screens, using the Custom Language Tool program (downloadable in the Download section):
- Windows 1252: EN, GA, IT, NO, PT, ES, SV, DE, FI, IS, FR, NL, SL
- Windows 1250: PL, CS, SK, HU, SL, SH, RO, SQ, EN, DE
- Windows 1251: RU, UK, BE, BG, SR, MK, EN
- Windows 1253: EL, EN
- Windows 1258: VI, EN, FR

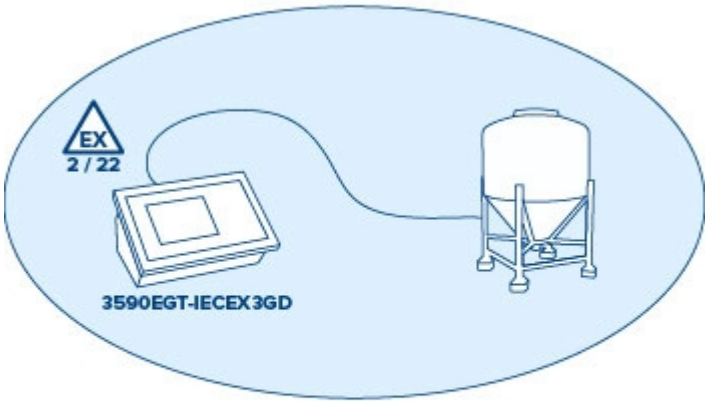
AVAILABLE ON ESTIMATE

- Power supply 24 Vdc.
- PG13,5 anti-friction cable glands with adapters for the passage of cables from 5,5 to 8 mm and from 10,5 to 13 mm.

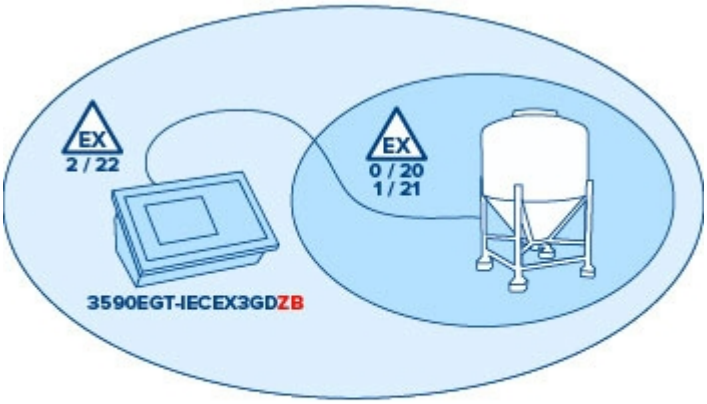
DETAIL 1



DETAIL 2



DETAIL 3



www.diniargeo.com



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SALES AND TECHNICAL ASSISTANCE SERVICE

All the specifications and images can be subject to variations and upgrades without prior notice.