

## EXBOX

EXBOX: Box with Exd protection for weighing and data transmission in 2GD ATEX zones



Box with Exd protection completed with weight indicator/transmitter, Zener barriers and intrinsically safe 4-20mA analog output. Fitted with 2 buttons for the main weighing operations with configurable functions, and two programmable electronic outputs for setpoints and levels management. Complete protection: II 2 (1) GD Ex d [ia Ga] IIC T6 Gb / Ex tb [iaD] IIIC T85°C Db IP65.

The best solution  
for advanced industrial  
applications

## BOX TECHNICAL FEATURES

- Aluminum alloy construction.
- Tempered glass, transparent, frontal porthole for weight reading and electronics checking.
- Painted with epoxy paint.
- 6 cable glands at disposal and standard fitted with 4 ATEX cable glands, for power supply, grounding, load cell cable and analog output.
- Weight: approx. 15kg.
- IP65 protection degree.

## ANALOG OUTPUT TECHNICAL FEATURES

- Intrinsically safe Ex i barrier for 4-20mA analog output.
  
- Atex marking:  
II (1) GD [Ex ia Ga] IIC  
[Ex ia Da] IIIC (-20°C ≤ Ta ≤ +60°C)
  
- Ex i electronic parameters:  
Um=250V  
Uo= 25,2V  
Io= 93mA  
Po= 585mW  
Co= 0,107μF  
Lo= 4,30mH  
L/R= 62μH/ohm

## ZENER BARRIERS TECHNICAL FEATURES

- The system includes 3 Zener barriers for load cells connection. The barriers can manage up to four 350Ohm load cells.
- Atex marking for one barrier:  
II (1) GD [Ex ia Ga] IIC [Ex ia Da] IIIC
- Ex i electronic parameters:  
Barrier for signal and sense: Um=250V  
Fuse: 50mA  
Uo: 17,4V  
Io: 25mA  
Po: 0,11W  
Co: 0,346µF  
Lo: 56,88mH  
Rmin: 705,6Ohm  
Barrier for supply: Um=250V  
Fuse: 100mA  
Uo: 24V  
Io: 164mA  
Po: 0,98W  
Co: 0,125µF  
Lo: 1,32mH  
Rmin: 1470hm

## INDICATOR MAIN TECHNICAL FEATURES

- DGT1SAN weight indicator with analog output, specific for the reading, diagnostic and transmission of the weight of one or more load cells.
- 5-key mechanic keyboard.
- Red LED display with 6 8-mm digits and 6 LEDs for showing active functions.
- Up to 10.000e or multi-range 2 x 3000e @ 0,3 µV/d in CE-M approved version for legal for trade use.
- Up to 100.000 displayable divisions with internal resolution up to 3.000.000 points.
- 1 channel A/D 24-bit sigma-delta conversion, up to 3200 conv./sec. auto-select.
- Fitted with 2 inputs for managing the buttons provided as standard and 2 programmable electronic outputs, for the set points and levels management.



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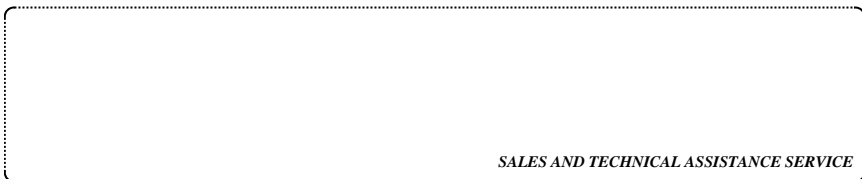


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SALES AND TECHNICAL ASSISTANCE SERVICE

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