

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: ATEX II 2 (1) GD Ex d [ia Ga] IIC T6 Gb / Ex tb [ia Da] IIIC T85°C Db IP66.

**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: $U_m=250V$
Fuse: 50mA
 $U_o: 17,4V$
 $I_o: 25mA$
 $P_o: 0,11W$
 $C_o: 0,346\mu F$
 $L_o: 56,88mH$
 $R_{min}: 705,6\Omega$
Barrier for supply: $U_m=250V$
Fuse: 100mA
 $U_o: 24V$
 $I_o: 164mA$
 $P_o: 0,98W$
 $C_o: 0,125\mu F$
 $L_o: 1,32mH$
 $R_{min}: 147\Omega$

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 $\mu V/d$ 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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