# Weight Transmitter **DAT 100 Analog**

available with certification • UL

## General information

PWS20220261125

The weight transmitter DAT 100 Analog has high performance and long-term reliability. Configuration and calibration can be set up from the front panel. The small width dimensions allow to place a large number of transmitters inside the electrical automation panels. The weight transmitter DAT 100 Analog has an interface with intrinsically safe barriers for use in hazardous areas. The product can be customized according to customer needs. It has two red status LEDs, 3 mechanical buttons behind the red door and screw terminal blocks.




Technical Manual: dat-100_en.pdf

All indicated data may be changed without notice.
All the measures indicated are expressed in millimeters (mm).

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Industrial Electronic Weighing Systems since 1963

# Technical specifications

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|---|---|
| **Measuring range:** | –4 ÷ +4 mV/V |
| **Input sensitivity:** | 0.02 µV/count |
| **Full scale non-Linearity:** | <0.01 % |
| **Gain drift:** | < 0.001% FS/°C |
| **Display:** | 5 digit, red LED (7 segments), h 7 mm |
| **A/D Converter:** | 24 bit |
| **Internal Resolution:** | 16.000.000 points |
| **Trasducer input voltage:** | 4 V (max 4 cells 350 Ohm) |
| **Frequency signal acquisition:** | 4 ÷ 123 Hz |
| **Visible resolution (in divisions):** | 60 000 |
| **Divisions value (adjustable):** | 0.001 ÷ 50 |
| **Temperature range:** | -10 ÷ +50°C (max umidity 85% without condensation) |
| **Storage temperature:** | -20 ÷ +60 °C |
| **Filter:** | 0.2 ÷ 20 Hz |
| **Logic output:** | 2 Solid-state relays, (maximum load 24 Vdc / 100 mA each) |
| **Logic inputs:** | 2 optoisolated 24 Vcc PNP (External voltage) |
| **Serial port:** | RS232C half duplex with ASCII or Modbus RTU protocol, RS485 full duplex with ASCII or Modbus RTU protocol |
| **Analog output Non-Linearity:** | < 0.03% FS |
| **Temperature drift analog output:** | < 0.002% FS |
| **Power supply:** | 24 V c.c. ±10% – power 2 W |
| **Regulatory compliance:** | EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for electrical security |
| **Baud rate:** | 2400 ÷ 115200 adjustable |
| **Transmission distance:** | 15 m |
| **Analog output:** | 16 Bit optoisolated |
| **Analog output current:** | 0/4÷20mA (R max 300 Ohm) |
| **Analog output voltage:** | 0÷5/10V (R min10 K Ohm) |

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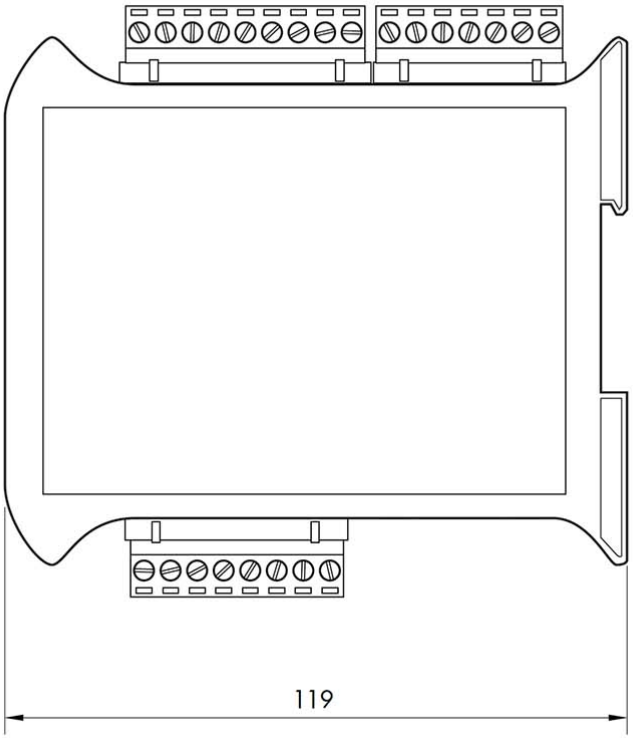


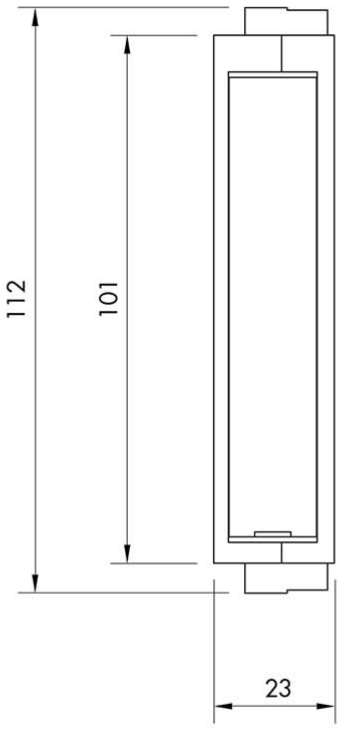


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