

## General information

PWS5420260527

The DAT 100/RS485 product is a weight transmitter which guarantees high performance and long-term reliability. Its small width makes it possible to position a large number of transmitters inside the electrical automation panels. DAT 100/RS485 weight transmitter has an interface with intrinsically safe barriers for use in hazardous areas. It has two red status LEDs, 3 mechanical buttons behind the red door and screw terminal blocks.



Technical Manual: [dat-100\\_en.pdf](#)

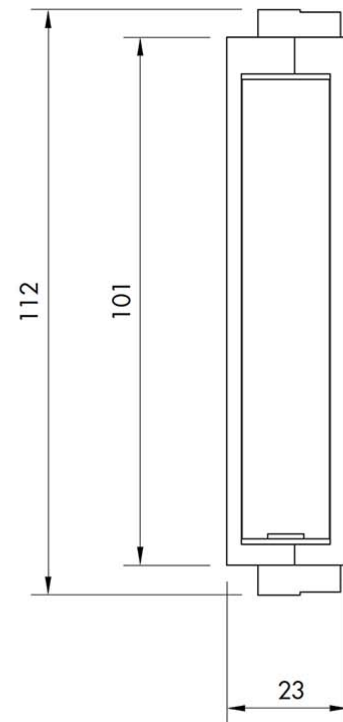
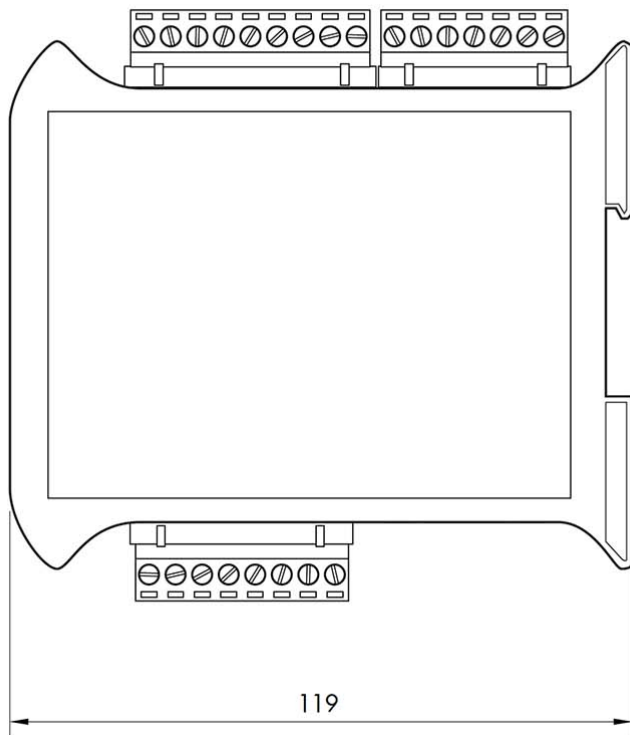
All indicated data may be changed without notice.  
All the measures indicated are expressed in millimeters (mm).

## Technical specifications

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|   |   |
|---|---|
| <b>Measuring range:</b>                   | -4 ÷ +4 mV/V  |
| <b>Input sensitivity:</b>                 | 0.02 µV/count   |
| <b>Full scale non-Linearity:</b>          | < 0.01%   |
| <b>Gain drift:</b>                        | < 0.001% FS/°C  |
| <b>Display:</b>                           | 5 digit, red LED (7 segments), h 7 mm   |
| <b>A/D Converter:</b>                     | 24 bit  |
| <b>Internal Resolution:</b>               | > 16.000.000 points   |
| <b>Transducer input voltage:</b>          | 4 V (max 4 cells 350 Ohm)   |
| <b>Frequency signal acquisition:</b>      | 4 ÷ 123 Hz  |
| <b>Visible resolution (in divisions):</b> | 999999  |
| <b>Divisions value (adjustable):</b>      | 0.001 ÷ 50  |
| <b>Temperature range:</b>                 | -10 ÷ +50°C (max umidity 85% without condensation)  |
| <b>Storage temperature:</b>               | -20 ÷ +60°C   |
| <b>Filter:</b>                            | 0.2 ÷ 25 Hz   |
| <b>Serial port:</b>                       | RS232C half duplex with ASCII or Modbus RTU protocol, RS485 full duplex with ASCII or Modbus RTU protocol |
| <b>Power supply:</b>                      | 24 V c.c. ±10% – power 2 W  |
| <b>Regulatory compliance:</b>             | EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for electrical security                                       |
| <b>Baud rate:</b>                         | 2400 ÷ 115200 adjustable  |
| <b>Transmission distance:</b>             | 15 m (RS232); 1000 m (RS485)  |

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