

## General information

PWS37720260704

The **DAT S 1400 ATEX** is the **industrial weighing instrument** designed to ensure maximum precision, robustness, and efficiency in modern automation and batching processes. Featuring a high-resistance stainless steel enclosure, this device combines a high-quality design with unparalleled versatility, offering a **100% customizable** solution based on the specific application needs of your production line. Developed on the basis of the field-proven DAT 1400 model, the **DAT S 1400 ATEX weight transmitter** maintains all its functions, communication protocols, and excellent performance unchanged, proving to be a valuable ally for optimizing weighing systems. The real added value of the DAT S 1400 ATEX is its full compliance with the strictest safety standards: the instrument is in fact **ATEX certified for operation in Zones 2 (gas) and 22 (dust)**, making it the ideal and reliable solution for industrial environments with a potential risk of explosion.



## Suggested related products

A highly performing weighing system must be accurate, perfectly calibrated and well maintained. In order to improve the load cell performance and to optimize its functioning, you may need the following products:

**Mounting kits** [DE MOUNTING KIT](#)

**Tester 1008** [TESTER 1008](#)

**Junction Box** [CGS4-C](#)

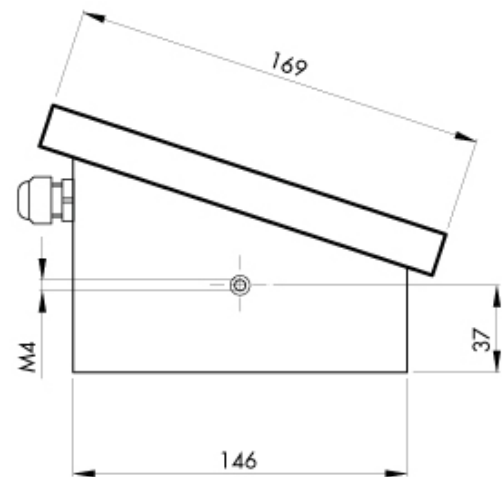
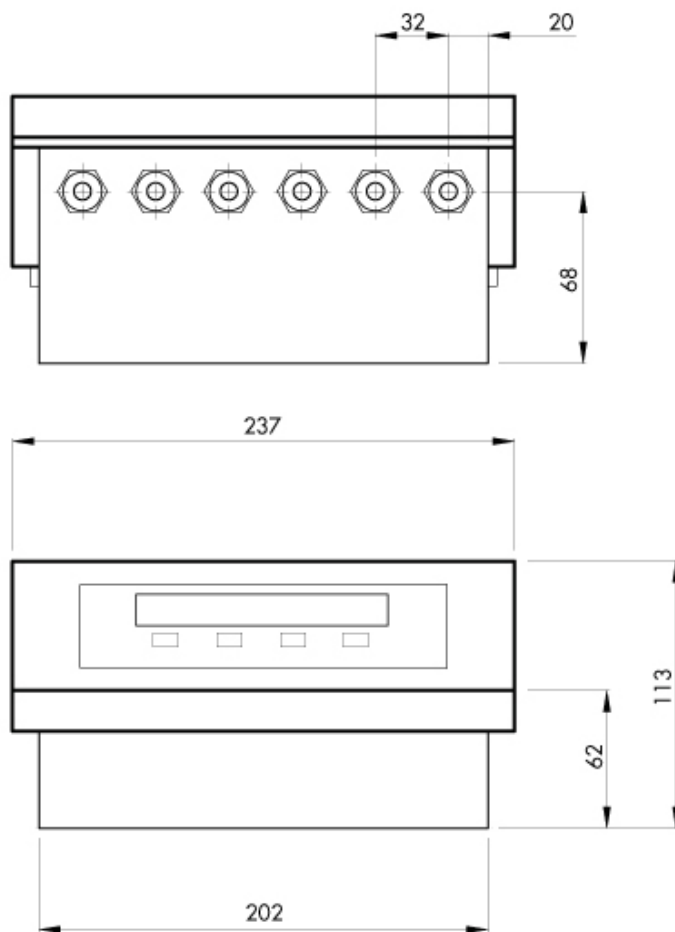
All indicated data may be changed without notice.  
All the measures indicated are expressed in millimeters (mm).

## Technical specifications

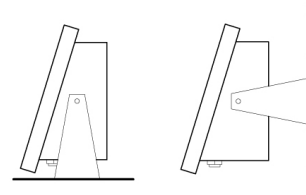
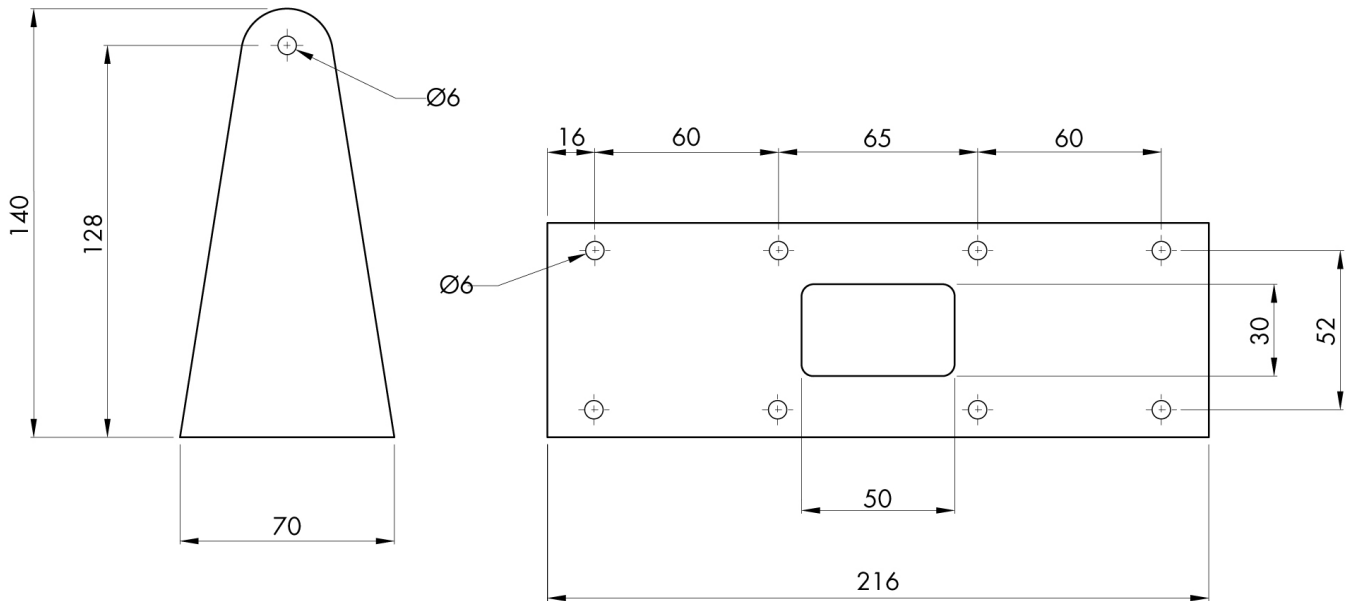
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<b>Legal for Trade:</b>	certification available on request
<b>Measuring range:</b>	-3.9 ÷ +3.9 mV/V
<b>Input sensitivity:</b>	0.02 µV/count
<b>Full scale non-Linearity:</b>	<0.01%
<b>Gain drift:</b>	< 0.001% FS/°C
<b>Display:</b>	6 digit, 7-segment LED red, height 14mm
<b>A/D Converter:</b>	24 bit
<b>Internal Resolution:</b>	> di 16.000.000 points
<b>Frequency signal acquisition:</b>	12 ÷ 1000 Hz
<b>Visible resolution (in divisions):</b>	999999
<b>Divisions value (adjustable):</b>	x1, x2, x5, x10, x20, x50
<b>Decimal figures range:</b>	0 ÷ 4
<b>Temperature range:</b>	-10 ÷ +50°C (max umidity 85% without condensation)
<b>Storage temperature:</b>	-20 ÷ +70°C
<b>Filter:</b>	0.5 ÷ 1000 Hz
<b>Excitation voltage:</b>	5 Vdc (max 8 -350 Ohm- load cells)
<b>Logic output:</b>	2 optoisolated outputs; max 24 Vdc/100 mA each
<b>Logic inputs:</b>	2 optoisolated inputs 24 Vdc PNP (external power supply)
<b>Serial port:</b>	1 USB device + 1 RS232C + 1 RS485/Fieldbus; ASCII or Modbus RTU protocol
<b>Analog output Non-Linearity:</b>	< 0,02%
<b>Temperature drift analog output:</b>	0,001% FS / °C
<b>Power supply:</b>	12 ÷ 24 Vdc ±15% - power consumption 5 W
<b>Microcontroller:</b>	ARM Cortex M0 + 32 bit 256KB Flash reprogrammable onboard via USB
<b>Data storage:</b>	64 Kbytes expandable up to 1024 Kbytes (optional)
<b>Regulatory compliance:</b>	EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety

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