Atex and Stainless Steel **DAT S 1400 (ATEX 2,22)**

available with certification • ATEX

General information

PWS37720261124

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).

PAVONE SISTEMI S.R.L.
Via Tiberio Bianchi 11/13/15, 20863 Concorezzo (MB), Milan, Italy
T (+39) 039 9162656 **F** (+39) 039 9162675 **W** pavonesistemi.com
Industrial Electronic Weighing Systems since 1963

Technical specifications

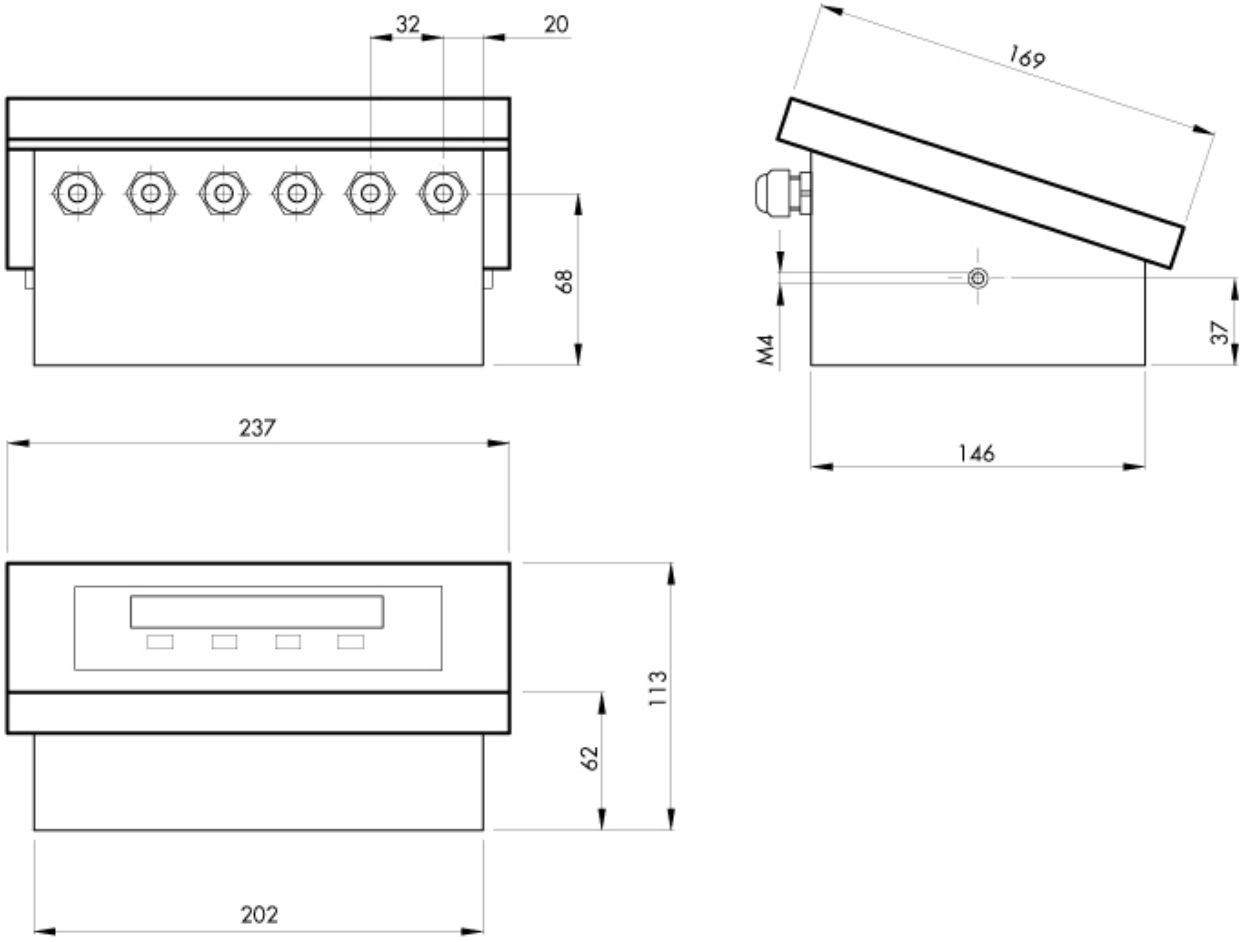
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Legal for Trade:	certification available on request
Measuring range:	-3.9 ÷ +3.9 mV/V
Input sensitivity:	0.02 µV/count
Full scale non-Linearity:	<0.01%
Gain drift:	< 0.001% FS/°C
Display:	6 digit, 7-segment LED red, height 14mm
A/D Converter:	24 bit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

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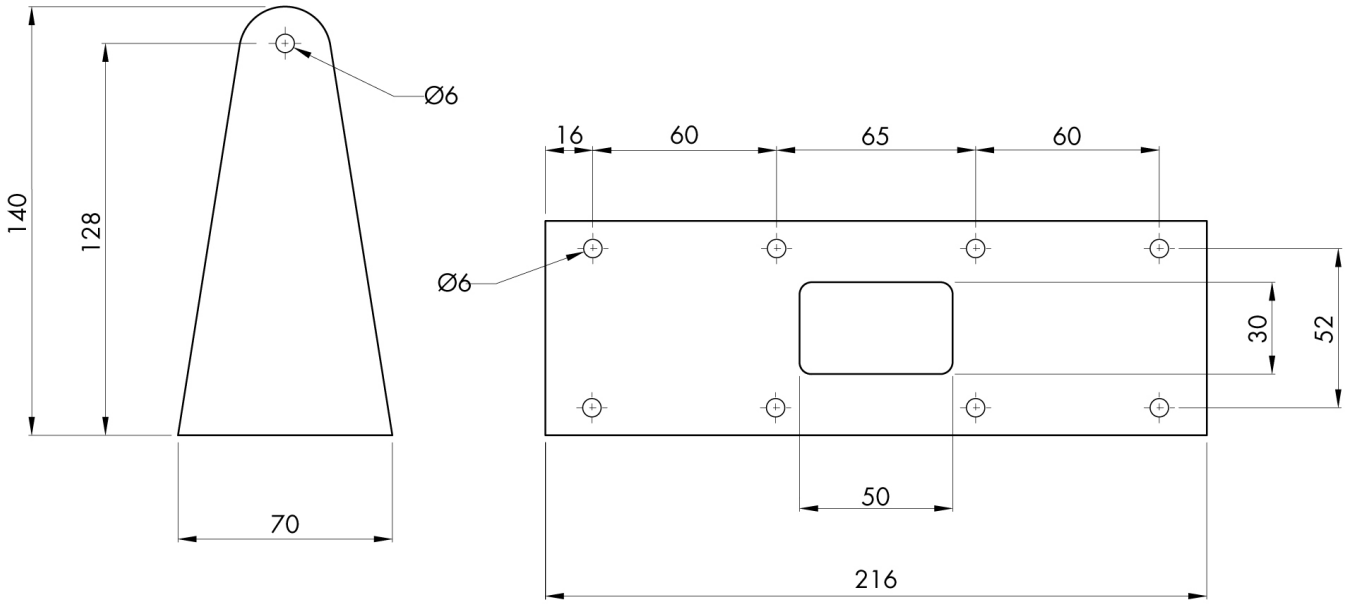


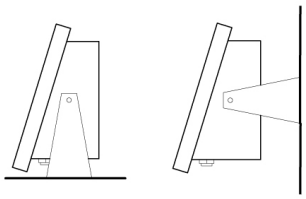
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