# Weight Transmitter **DAT 1400 Ananlog + Ethernet**

available with certification • UL • OIML

## General information

PWS31420261125

The DAT 1400 Analog + Ethernet weight transmitter has a mechanical keyboard and removable screw terminal blocks. DAT 1400 Analog + Ethernet is a completely customizable product. Among the various options that can be added there are: the connection (RS485 and power supply) to external smart junction box, the DATALOGGER function and the web-server software, which allows you to check the operating status of the instrument and to regulate other parameters even remotely. Moreover, DAT 1400 Analog + Ethernet has a Peak Hold function for dynamic measures. The Software Optimation is given for free. This Software allows you to run certain activities such as calibration or monitoring directly from your computer. The Optimation software is provided by Pavone Systems and guarantees a perfect instrument run.




Software Optimation 1.11.22: optimation_weighing_software.zip

Technical Manual: dat-1400_technical_manual.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

PWS31420261125

| | |
|---|---|
| **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:** | > 16.000.000 points |
| **Trasducer input voltage:** | 5 Vdc (max 8 -350 Ohm- load cells) |
| **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 (humidity max 85% no condensation) |
| **Storage temperature:** | -20 ÷ +70°C |
| **Filter:** | 0.5 ÷ 1000 Hz |
| **Logic output:** | 2 opto-isolated; MAX 24 Vdc/100 mA each |
| **Logic inputs:** | 2 opto-isolated 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 from USB |
| **Data storage:** | 64 Kbytes expandable up to 1024 Kbytes |
| **Regulatory compliance:** | EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety |

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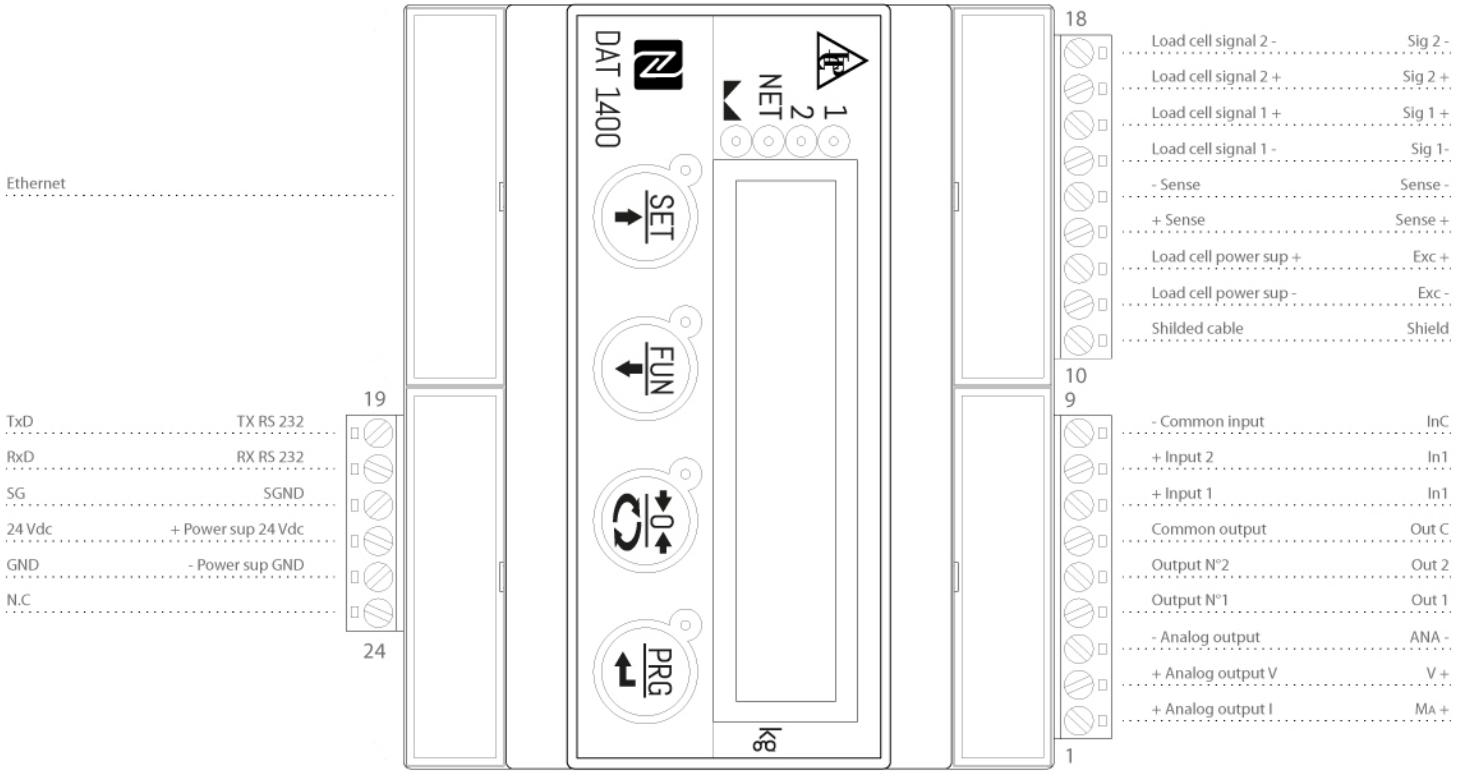


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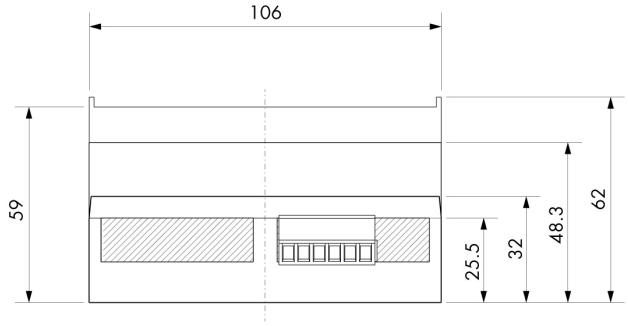
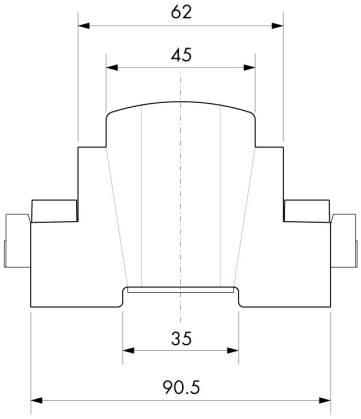
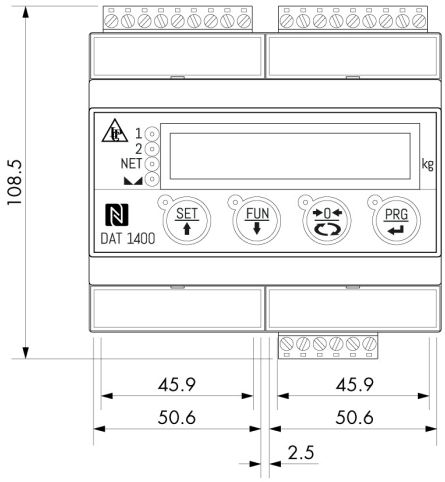
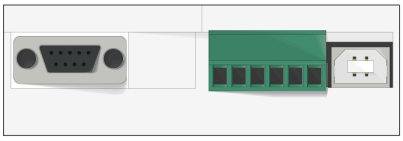


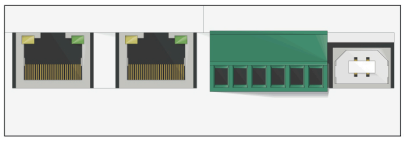



RS 485/Modbus



Ethernet

Serial communication interface



Ethercat

Ethernet/IP

PROFINET

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