

## General information

PWS24620240319

The weight transmitter DAT 1400 Ethercat has a mechanical keyboard, a removable screw terminal blocks and a peak hold function for dynamic measures. DAT 1400 Ethercat is a customizable product which owns several options such as: power supply to external smart junction box and DATALOGGER function, ecc. The Software Optimization is given for free. This Software allows you to run certain activities such as calibration or monitoring directly from your computer. The Optimization software is provided by Pavone Systems and guarantees a perfect instrument run.



Software Optimization 1.8.23: [optimization\\_weighing\\_software.zip](#)

Technical Manual: [dat-1400\\_technical\\_manual.pdf](#)

Ethercat ECS file (NIC50): [ethercat\\_nic50\\_ecs.zip](#)

Ethercat ECS file (NETX90): [ethercat\\_netx90\\_ecs.zip](#)

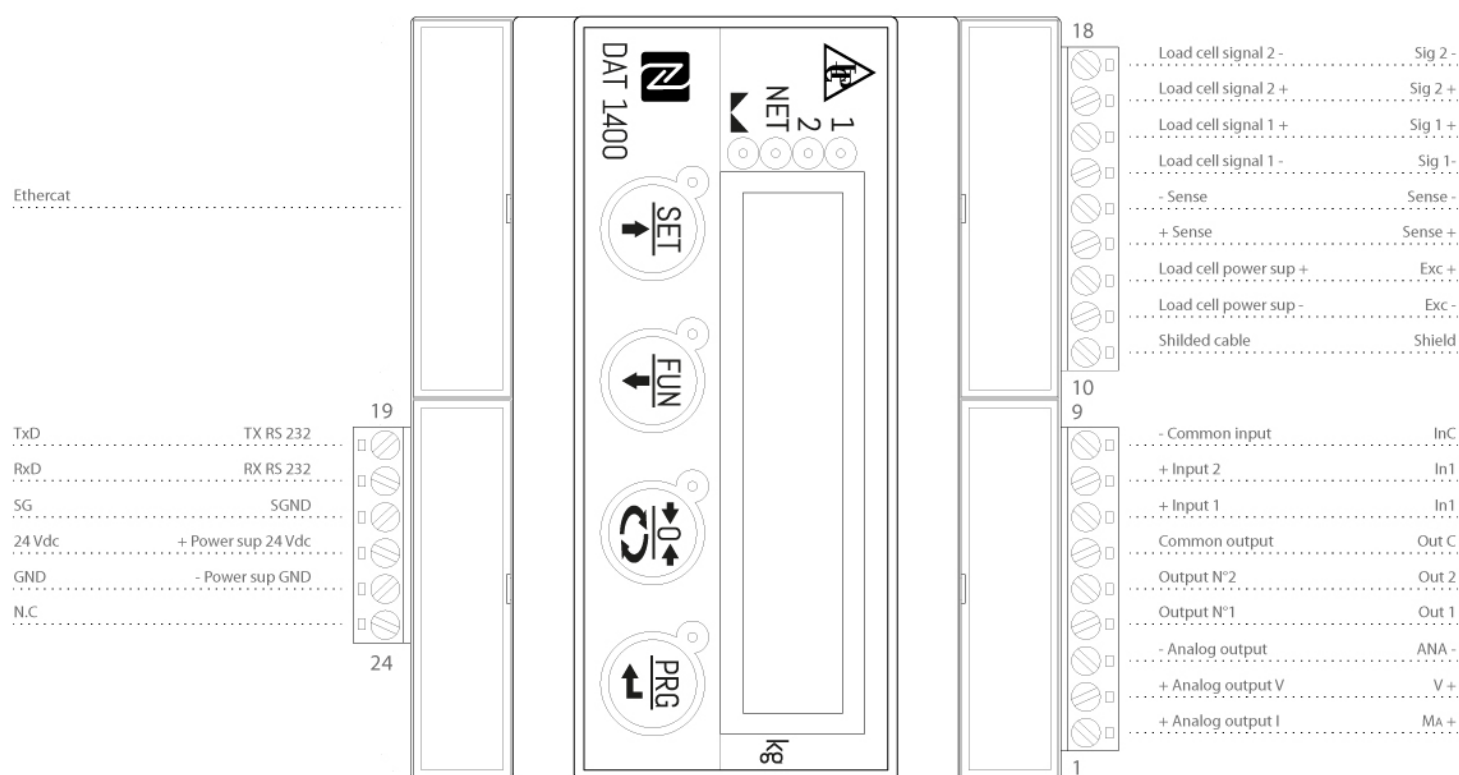
All indicated data may be changed without notice.  
All the measures indicated are expressed in millimeters (mm).

## Technical specifications

PWS24620240319

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

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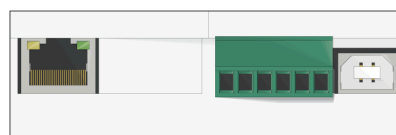
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# Weight Transmitter **DAT 1400 Ethercat**

available with certification • UL • EAC



RS 485/Modbus



Ethernet



Ethercat

Ethernet/IP

PROFINET

Serial communication interface

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