

## WEIGHING INSTRUMENTATION

### Weight transmitters

#### DAT 1400



Frequency acquisition A/DC signal up to 1000 Hz

DATALOGGER function (optional)

Capacitive keyboard

Fieldbus + analog output on board at the same time

Removable screw terminal blocks

Mounting Type: DIN rail & assembly kits for front-panel

All Fieldbus available: Profinet, Ethercat, Ethernet IP, Ethernet

#### TECHNICAL CHARACTERISTICS DAT 1400

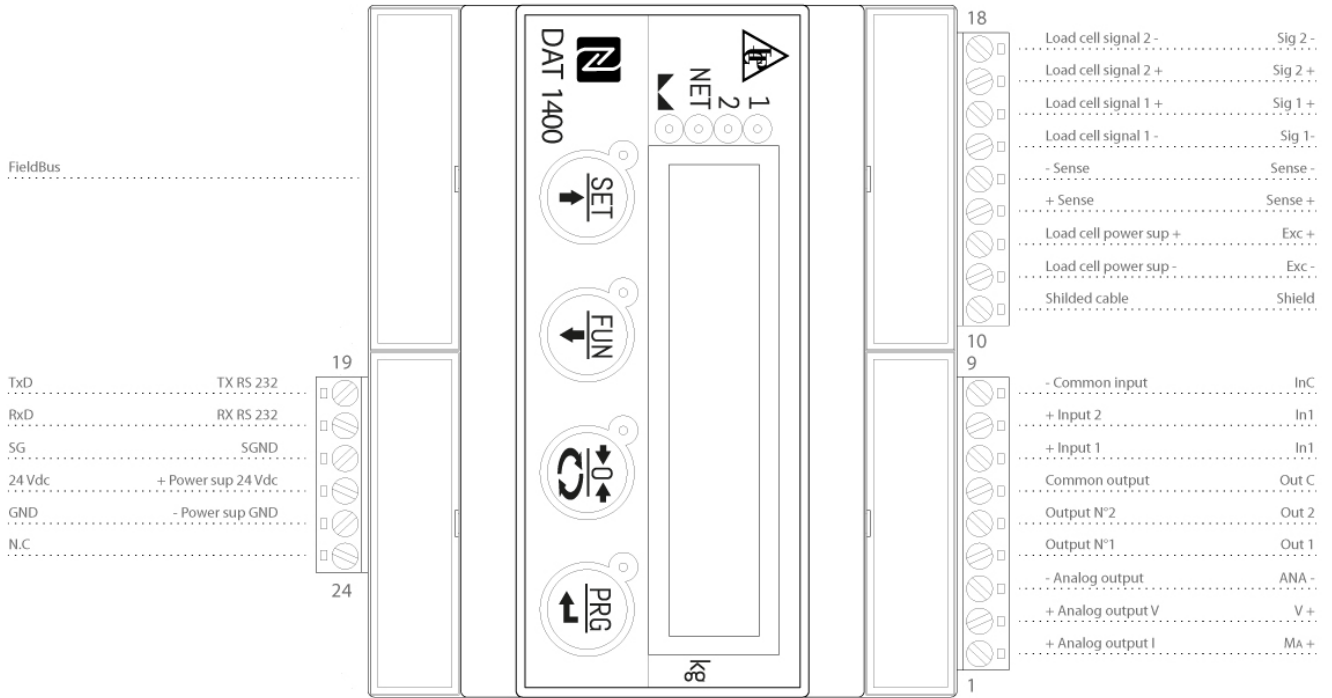
<b>Instrument power supply:</b>	12-24 Vdc $\pm$ 15% - Power consumption 5 W
<b>Measuring range:</b>	-3.9 $\div$ +3.9 mV/V
<b>Input sensitivity:</b>	0.02 microV/div
<b>Linearity:</b>	< 0.01% FS
<b>Temperature drift:</b>	< 0.001% FS/ $^{\circ}$ C
<b>Display:</b>	6 digit, 7-segment LED red, height 14mm
<b>A/D converter:</b>	24 bit
<b>Internal resolution:</b>	> di 16.000.000 points
<b>Frequency signal acquisition:</b>	12 $\div$ 1000 Hz
<b>Display resolution:</b>	999.999 displayable divisions on net weight
<b>Value divisions (selectable):</b>	x1, x2, x5, x10, x20, x50
<b>Decimals setting:</b>	0.0 ; 0.00 ; 0.000; 0.0000
<b>Filter:</b>	Selectable 0.5 to 1000 Hz
<b>Keyboard:</b>	capacitive, 4 keys
<b>Transducer input voltage:</b>	5 Vdc (max 8 -350 Ohm- load cells)
<b>Operating temperature:</b>	-10/+ 50 $^{\circ}$ C (humidity max 85% no condensation)
<b>Storage temperature:</b>	-20/+70 $^{\circ}$ C
<b>Logic outputs:</b>	2 opto-isolated; MAX 24 Vdc/100 mA each
<b>Logic inputs:</b>	2 opto-isolated 24 Vdc PNP (external power supply)
<b>Serial ports:</b>	1 USB device + 1 RS232C + 1 RS485/Fieldbus; ASCII or Modbus RTU protocol
<b>Peak Hold function:</b>	for dynamic measurements
<b>Optional analogue output:</b>	optoisolated 16-Bit Voltage: 0 to 5/10 V (R min10 K Ohm), Current: 0/4 to 20 mA (R max 300 Ohm)
<b>Analog output linearity:</b>	< 0,02% FS
<b>Temperature drift analog output:</b>	0,001% FS / $^{\circ}$ C
<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 (optional)
<b>Regulatory Compliance:</b>	EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety
<b>Electrical connections:</b>	5 mm terminal blocks, removable

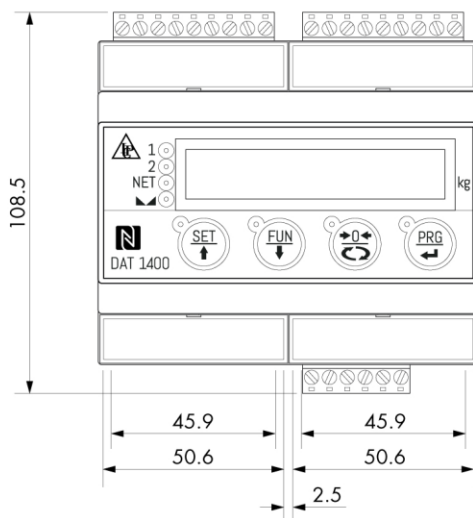
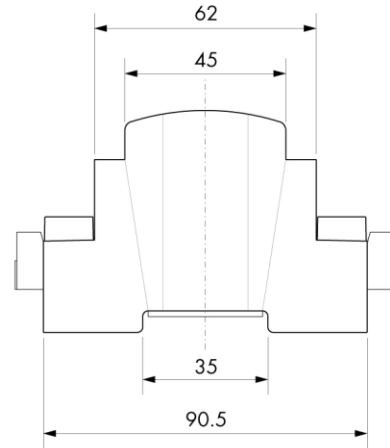
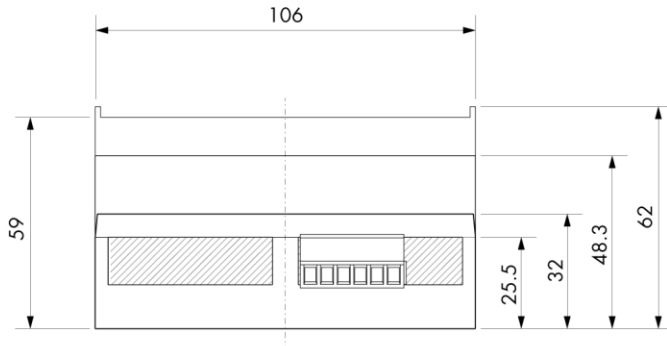


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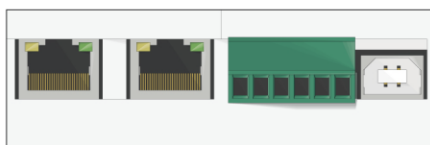




RS 485/Modbus



Ethernet



Serial communication interface

Ethercat

Ethernet/IP

PROFINET