



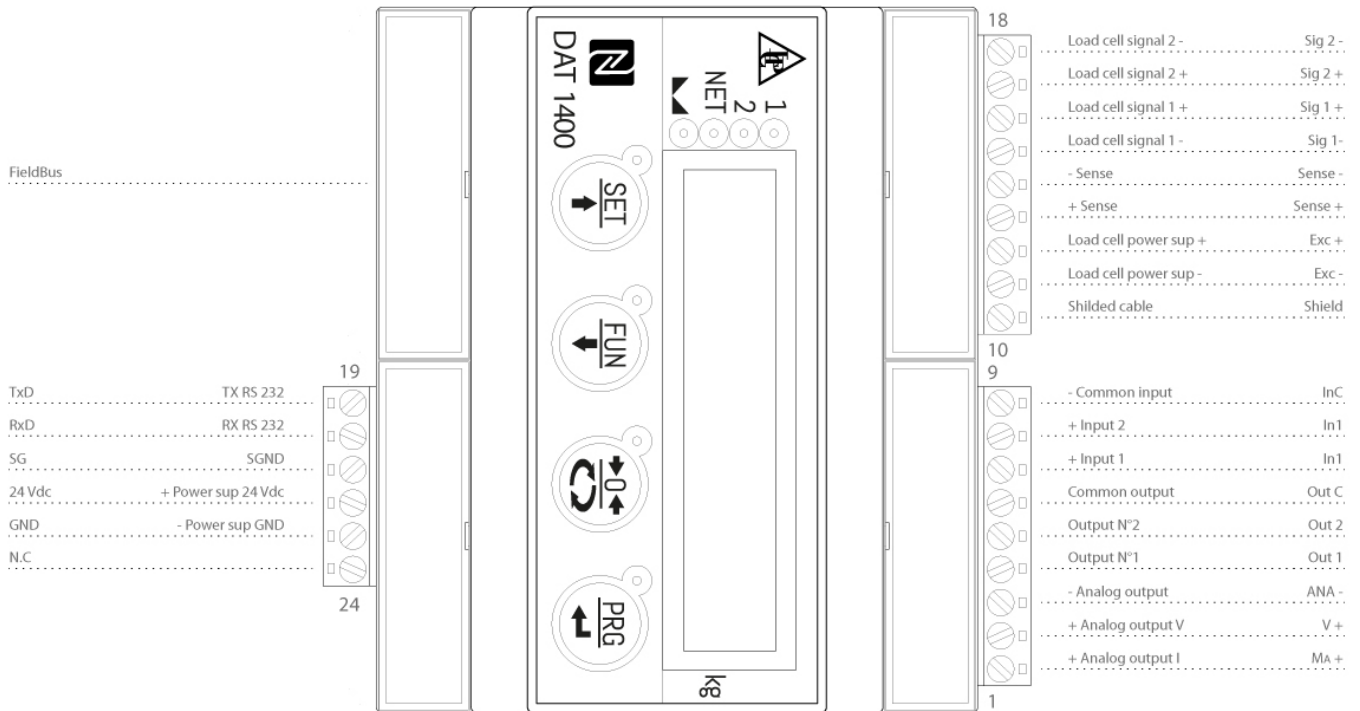
- Frequency acquisition A/DC signal up to 1000 Hz
- DATALOGGER function (optional)
- Capacitive keyboard
- Fieldbus + analog output on board at the same time
- Removable screw terminal blocks
- Mounting Type: DIN rail & assembly kits for front-panel
- All Fieldbus available: Profinet, Ethercat, Ethernet IP, Ethernet
- Future options:
  - Two independent weighing channels
  - Analog voltage/current input
  - Connection to I-BOX external via RS485

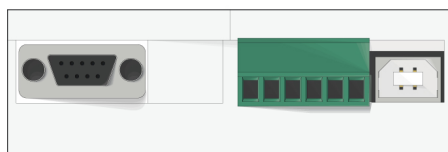
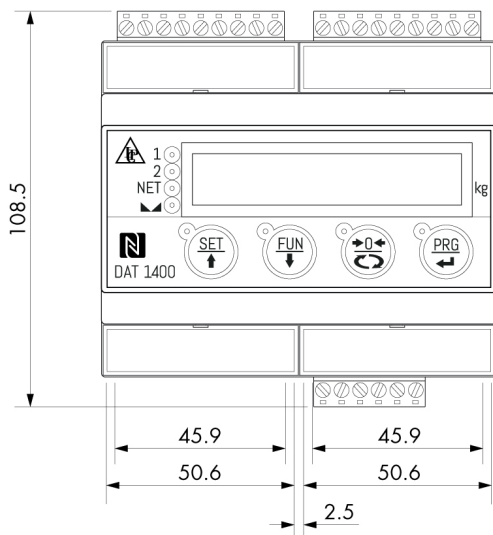
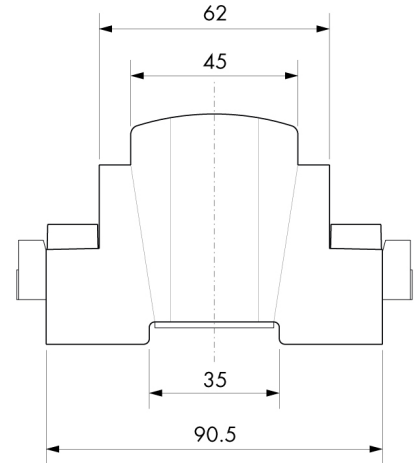
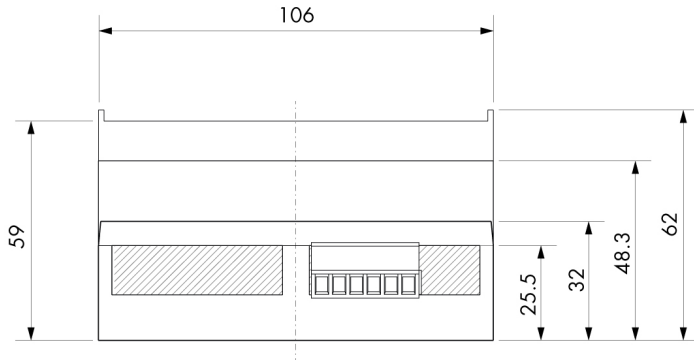
**TECHNICAL CHARACTERISTICS DAT 1400**



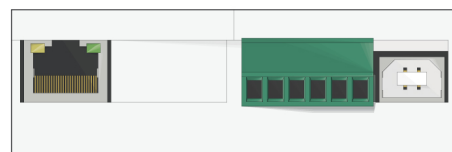
|                                  |   |
|----------------------------------|---|
| Instrument power supply:         | 12-24 Vdc $\pm$ 15% - Power consumption 5 W   |
| Measuring range:                 | -3.9 $\div$ +3.9 mV/V   |
| Input sensitivity:               | 0.02 microV/div   |
| Linearity:                       | < 0.01% FS  |
| Temperature 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 $\div$ 1000 Hz   |
| Display resolution:              | 999.999 displayable divisions on net weight   |
| Value divisions (selectable):    | x1, x2, x5, x10, x20, x50   |
| Decimals setting:                | 0.0 ; 0.00 ; 0.000; 0.0000  |
| Filter:                          | Selectable 0.5 to 1000 Hz   |
| Keyboard:                        | capacitive, 4 keys  |
| Transducer input voltage:        | 5 Vdc (max 8 -350 Ohm- load cells)  |
| Operating temperature:           | -10/+ 50 ° C (humidity max 85% no condensation)   |
| Storage temperature:             | -20/+70°C   |
| Logic outputs:                   | 2 opto-isolated; MAX 24 Vdc/100 mA each   |
| Logic inputs:                    | 2 opto-isolated 24 Vdc PNP (external power supply)  |
| Serial ports:                    | 1 USB device + 1 RS232C + 1 RS485/Fieldbus; ASCII or Modbus RTU protocol                        |
| Peak Hold function:              | for dynamic measurements  |
| Optional analogue output:        | optoisolated 16-Bit Voltage: 0 to 5/10 V (R min10 K Ohm), Current: 0/4 to 20 mA (R max 300 Ohm) |
| Analog output linearity:         | < 0,02% FS  |
| Temperature drift analog output: | 0,001% FS / °C  |
| Microcontroller:                 | ARM Cortex M0 + 32 bit 256KB Flash reprogrammable onboard from 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                               |
| Electrical connections:          | 5 mm terminal blocks, removable   |



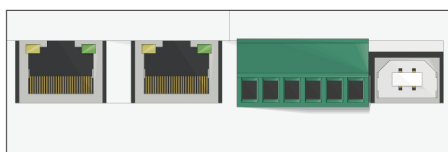




RS 485/Modbus



Ethernet



Ethercat

Ethernet/IP

PROFINET

Serial communication interface



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