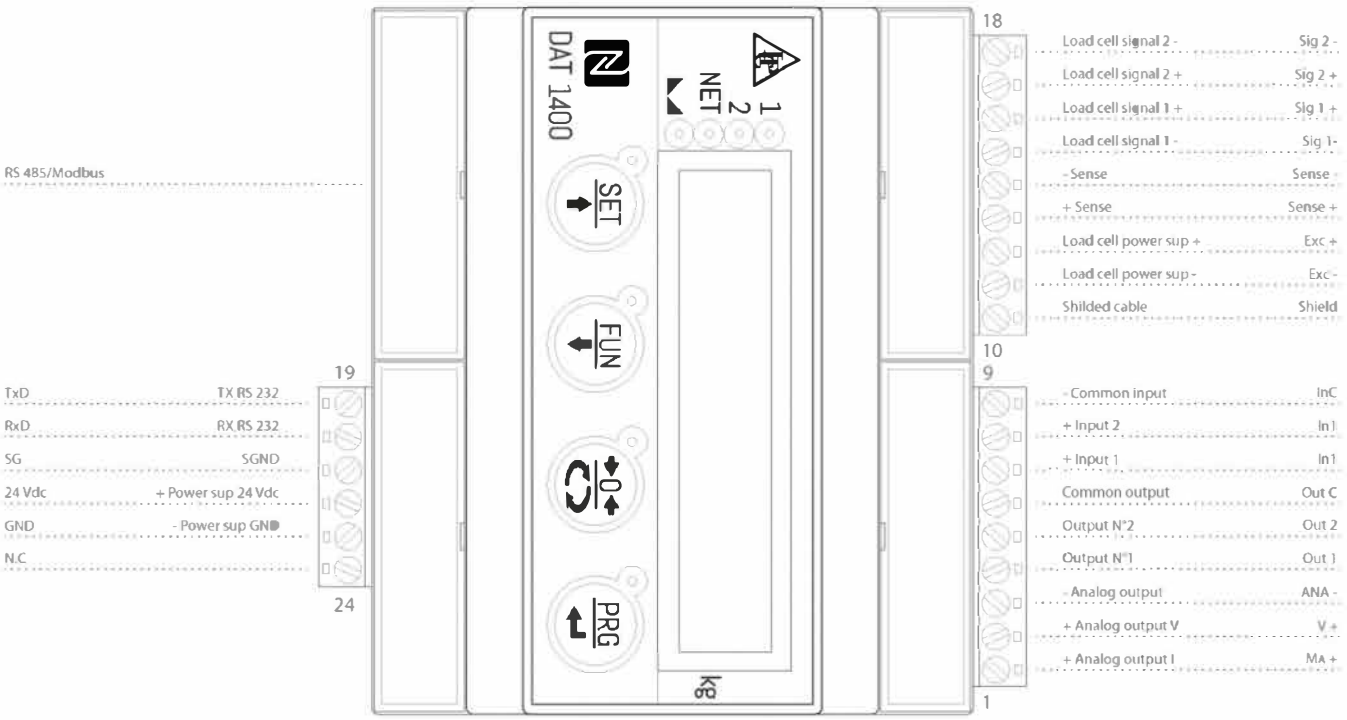
STEKON

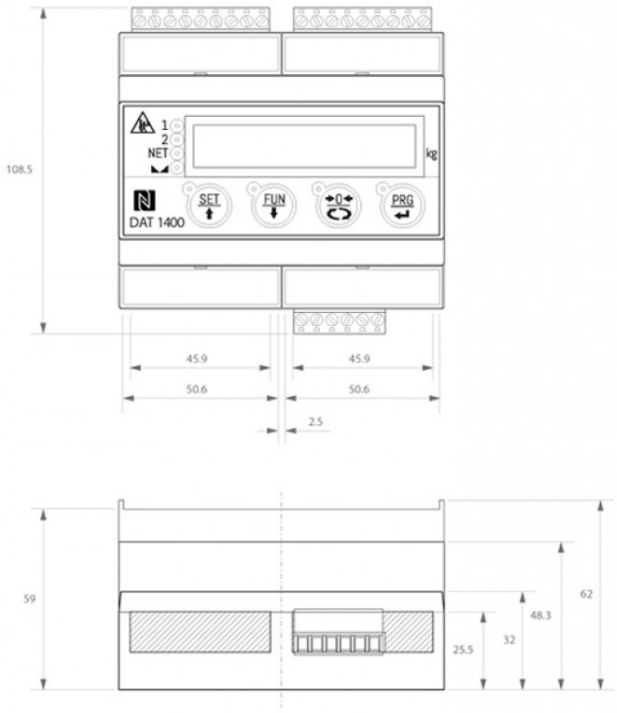
LOADCELLS | PRESSURE SENSORS | ELECTRONICS

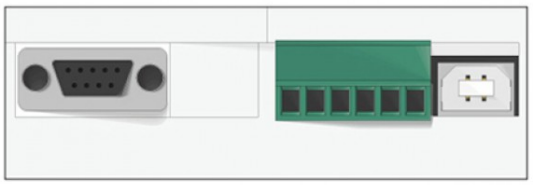
- Frequency acquisition A/DC signal up to 1000 Hz
- DATALOGGER function (optional)
- Capacitive keyboard
- Fieldbus + analog output on board at the same time
- Removable screw terminal blocks
- Mounting Type: DIN rail & assembly kits for front-panel
- All Fieldbus available: Profinet, Ethercat, Ethernet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

TECHNICAL CHARACTERISTICS DAT 1400 AN/RS485 MOD

Power supply:	5 Vdc (max 8 -350 Ohm- load cells)
Measuring range:	-3.9 ÷ +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 ÷ 1000 Hz
Displayable 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
Keybord:	capacitive, 4 keys
Instrument power supply:	12-24 Vdc ± 15% - Power consumption 5 W
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 protocoll
Peak Hold function:	for dynamic measurements
Analog 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
Regulatory Compliance:	EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety
Electrical connections:	5 mm terminal blocks, removable


DAT 1400
NET
1
2
SET
FUN
PRG
kg
RS 485/Modbus
19
TxD
TX RS 232
RxD
RX RS 232
SG
SGND
24 Vdc
+ Power sup 24 Vdc
GND
- Power sup GND
N.C
24
18
Load cell signal 2 -
Sig 2 -
Load cell signal 2 +
Sig 2 +
Load cell signal 1 +
Sig 1 +
Load cell signal 1 -
Sig 1-
- Sense
Sense -
+ Sense
Sense +
Load cell power sup +
Exc +
Load cell power sup -
Exc -
Shilded cable
Shield
10
9
- Common input
InC
+ Input 2
In1
+ Input 1
In1
Common output
Out C
Output N°2
Out 2
Output N°1
Out 1
- Analog output
ANA -
+ Analog output V
V +
+ Analog output I
MA +
1

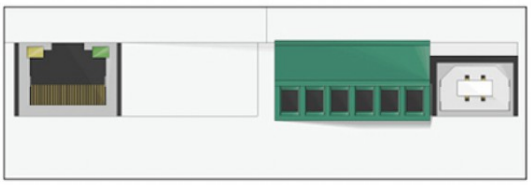




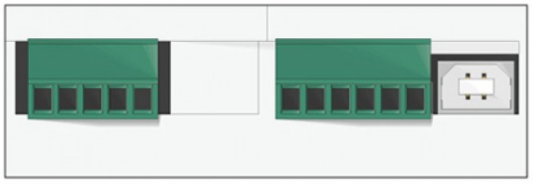
RS 485/Modbus

Profibus

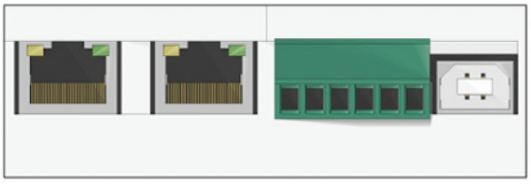
CANopen



Ethernet



DEVICENET



Ethercat

Ethernet/IP

PROFINET

Serial communication interface