Weight Indicator

FEATURES

- LCD screen with capacitive touch controls
- Appropriate for desk, wall or panel mounting
- Multi-lingual menu
- 6 opto-isolated input and output ports (for a total of twelve), voltage rating: 24 VDC/100 mA
- Powerful 32-bit ARM microprocessor

OPTIONS

- Multiple serial bus output options
- Analog option available

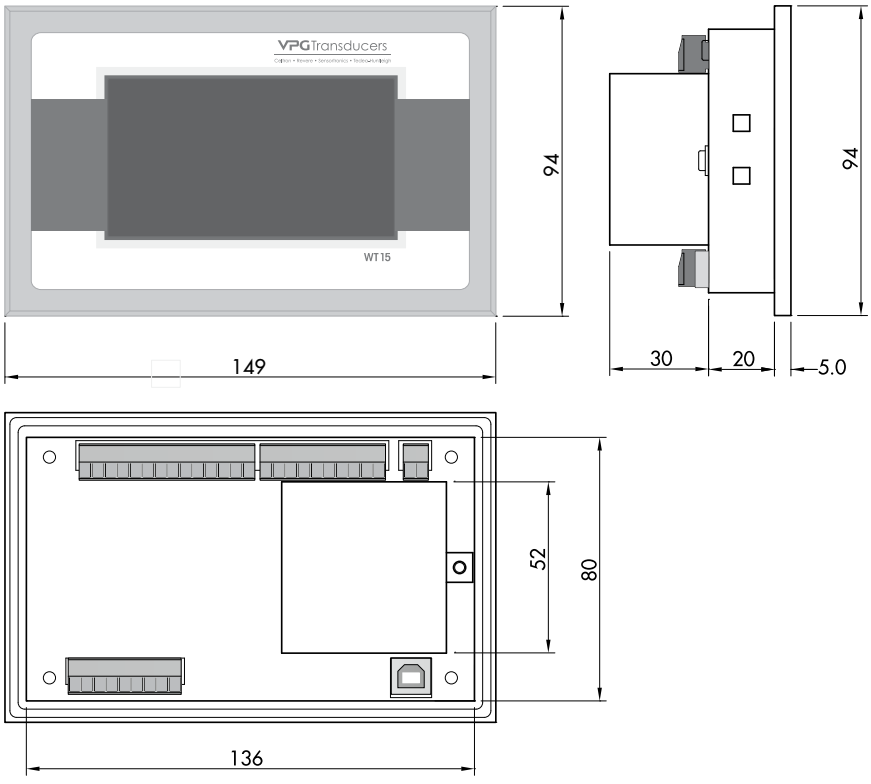
APPLICATIONS

- Various industrial systems

DESCRIPTION

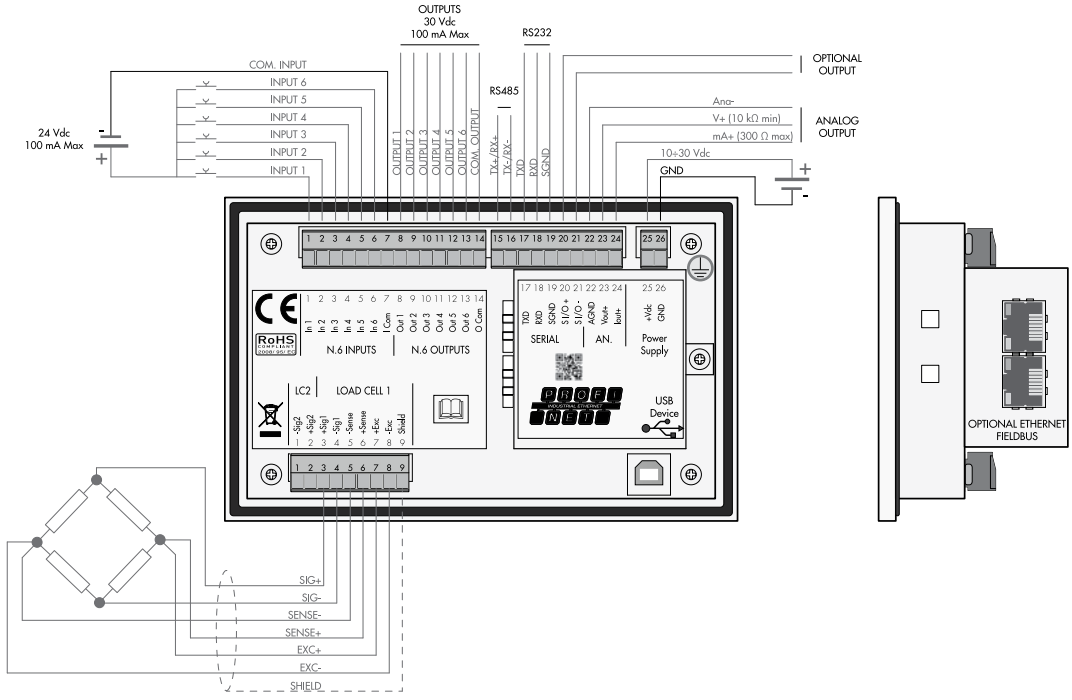
The high-quality WT15 weight indicator is appropriate for a wide range of industrial and commercial applications. Its intuitive touch screen is easy to use, and the WT15 features six input and six output ports – the most logic ports of any VPG Transducers indicator. The central component of the Model WT15 is its ARM Cortex-M0 microcontroller, which offers a 32-bit code density – impressive computing power for its small size – and is the key to the indicator's flexibility.

OUTLINE DIMENSIONS



Weight Indicator

WIRING DIAGRAM



SPECIFICATIONS

PERFORMANCE

Power Output
5 VDC

Measuring Range
–3.9 to +3.9 mV/V

Input Sensitivity
0.02 µV/division

Linearity
<0.01% of full scale

Temperature Drift
<0.001% full scale ˚C

D/A Convertor
24 bit

Maximum Load Cells
8 at 350 Ω

Frequency Signal Acquisition
12 to 1000 Hz

Internal Resolution
16,000,000 counts

Visible Resolution
999,999 counts (visible on net weight)

Divisions Value (Adjustable)
x 1, x 2, x 5, x 10, x 20, x 50

Decimals Setting
0.0, 0.00, 0.000, 0.0000

Filter (Adjustable)
0.1 to 250 Hz

Microcontroller
ARM Cortex M0 with 32-bit 256 KB Flash, reprogrammable on-board from USB

Data Storage
64 KB to 1024 KB

ENVIRONMENTAL

Operating Temperature
–10 to +50 ˚C

Storage Temperature
–20 to +70 ˚C

Maximum Humidity Before Condensation
85%

Weight Indicator

DISPLAY AND KEYBOARD

Display
Graphic LCD

Display Height
240 x 128 pixels

Keyboard
Keyboard operations taken provided by four wire resistive touch screen

ELECTRICAL

Voltage
10 to 30 VDC

Wattage
5 W

INPUT AND LOGICS

Logic Input
6 opto-isolated, PNP, 24 VDC (external voltage)

Logic Output
6 opto-isolated
(maximum load 24 VDC/100 mA each)

Additional I/O
Up to 4 external modules with 4 inputs and 8 outputs each (16 in/32 out in total) with independent RS485 fieldbus

ANALOG OUTPUT (OPTIONAL)

Output
16 bit, opto-isolated

Voltage
0 to 5/10 V, (R min 10 kΩ)

Current
0/4 to 20 mA (R max 300 Ω)

Linearity
<0.02% of full scale

Temperature Drift
<0.001% of full scale ˚C

SERIAL COMMUNICATION

Serial Output #1
1 RS232C

Baud Rate
2400 to 115200 (adjustable)

Serial Output #2
1 RS485

Baud Rate
2400 to 115200 (adjustable)

Serial Output #3
USB device interface

Serial Output #4 (Optional)
PROFINET interface

Serial Port #5 (Optional)
EtherCAT interface

Serial Port #6 (Optional)
Ethernet interface

Connection Speed
10 to 100 mbps

ENCLOSURES

Dimensions
149 x 94 x 55 mm, L x H x D

Mounting
Panel Mounting

Electrical Connections
3.81 mm removal terminal blocks

APPROVALS

EN
EN61000-6-2, EN61000-6-3 for EMC;
EN61010-1 for Electrical Safety,
EN45501 for metrology

Ordering information is on next page.

Weight Indicator

ORDERING INFORMATION FOR WT15

M O D - A - O

MODEL
WT15

ANALOG OPTION (A)
NA = No analog output
ANA = Analog output

OUTPUT OPTION (O)*
NOP = No output option
PNET = PROFINET interface
ETHC = EtherCAT interface
ETH = Ethernet 10 to 100 Mbps interface
ETHI = Ethernet IP Interface

Example Completed Part Numbers:
WT15-NA-PNET is the part number for a WT15 with no analog option but does have a PROFINET interface.
WT15-ANA-NOP is the part number for a WT15 with an analog option and no additional outputs.
***This is mandatory: customers must select an output option.**

All specifications subject to change without notice. For inquiries within Italy please contact the VPG Transducers Marketing Department directly using the email address vpgt.marketing@vpgsensors.com.

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