

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

- ATEX certified version for use in potentially explosive environments
- Multiple serial bus output options
- Analog option available

APPLICATIONS

- Various industrial systems

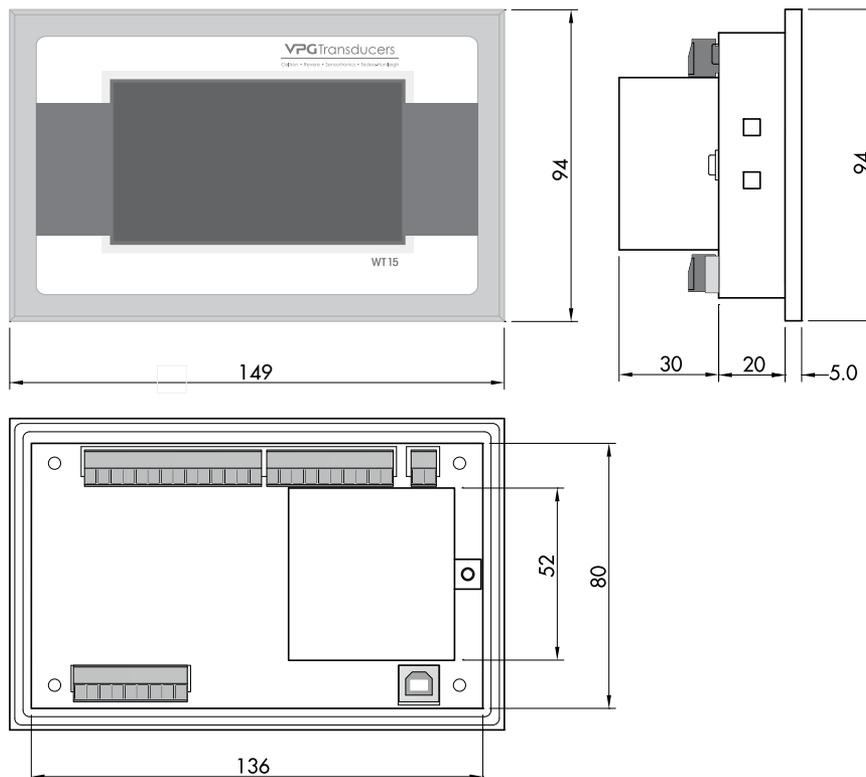
DESCRIPTION

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.

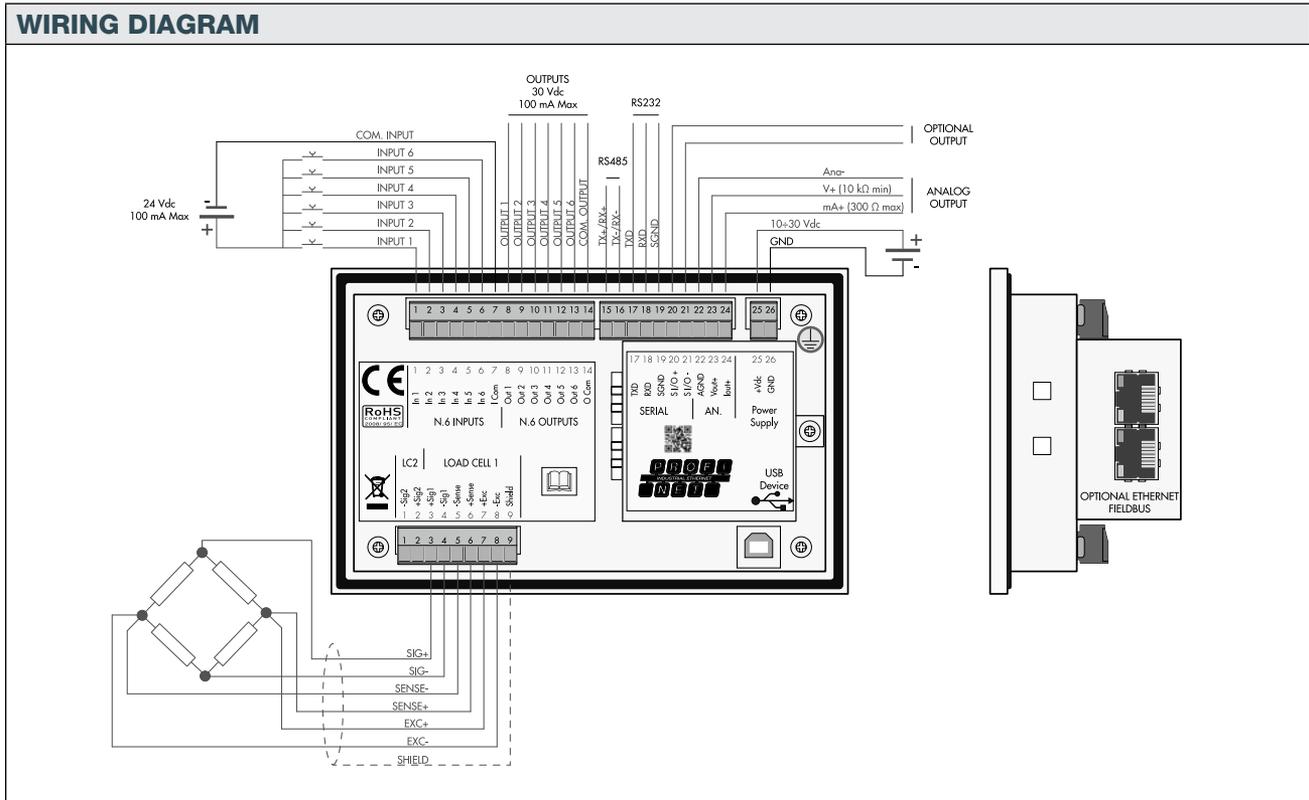


OUTLINE DIMENSIONS



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Weight Indicator



SPECIFICATIONS

PERFORMANCE

Power Output
5 VDC

Measuring Range
-3.9 to +3.9 mV/V

Input Sensitivity
0.02 μ V/division

Linearity
<0.01% of full scale

Temperature Drift
<0.001% full scale $^{\circ}$ 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 $^{\circ}$ C

Storage Temperature
-20 to +70 $^{\circ}$ 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 k Ω)

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

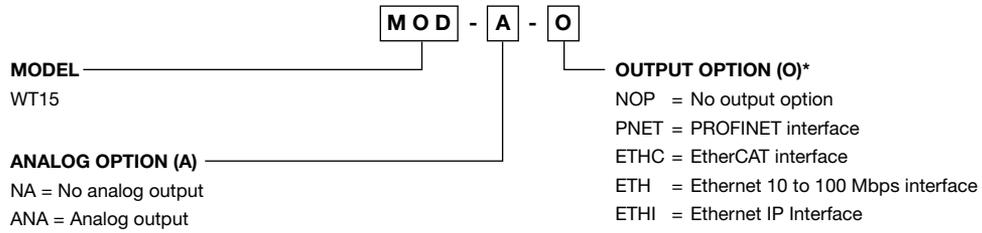
APPROVALS

EN

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

Weight Indicator

ORDERING INFORMATION FOR WT15



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.



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