

## 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

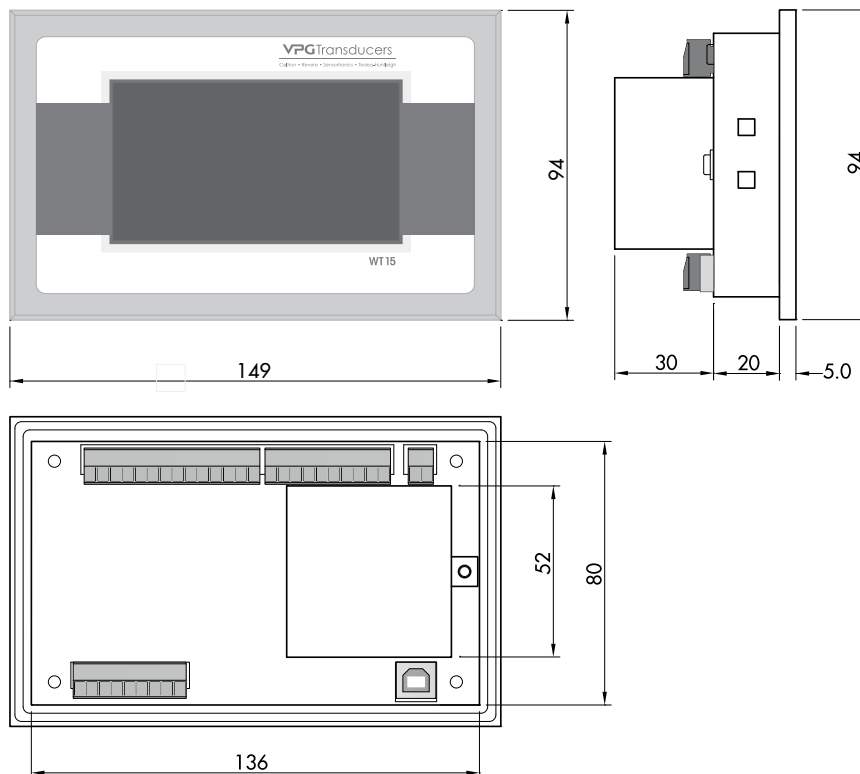
### DESCRIPTION

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.



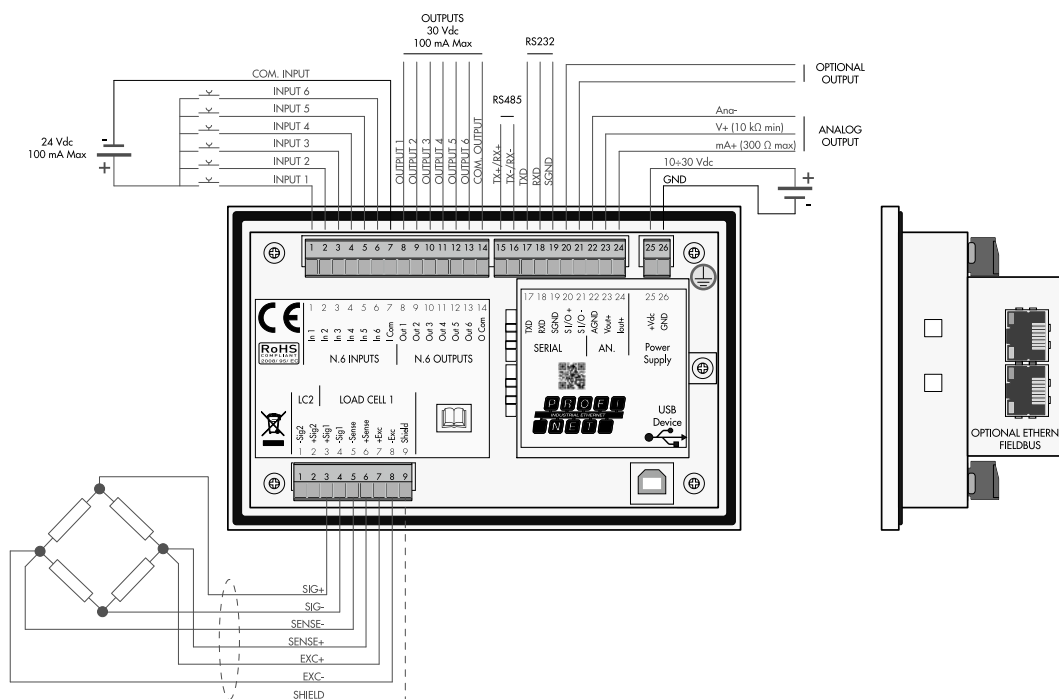
### OUTLINE DIMENSIONS



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### Weight Indicator

#### WIRING DIAGRAM



#### SPECIFICATIONS

##### PERFORMANCE

**Power Output**  
5 VDC

**Measuring Range**  
-3.9 to +3.9 mV/V

**Input Sensitivity**  
0.02  $\mu$ 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  $\Omega$

**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 $\Omega$ )

**Current**

0/4 to 20 mA (R max 300  $\Omega$ )

**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

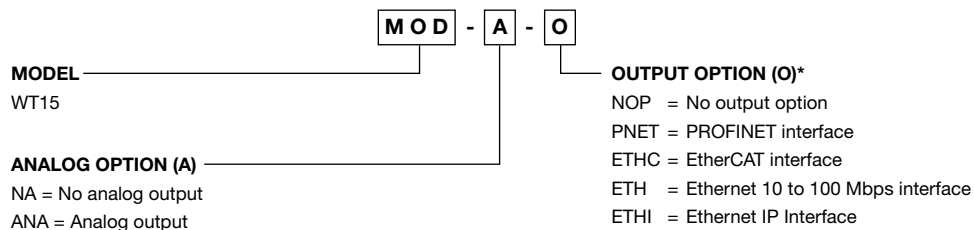
## APPROVALS

**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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