

## 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

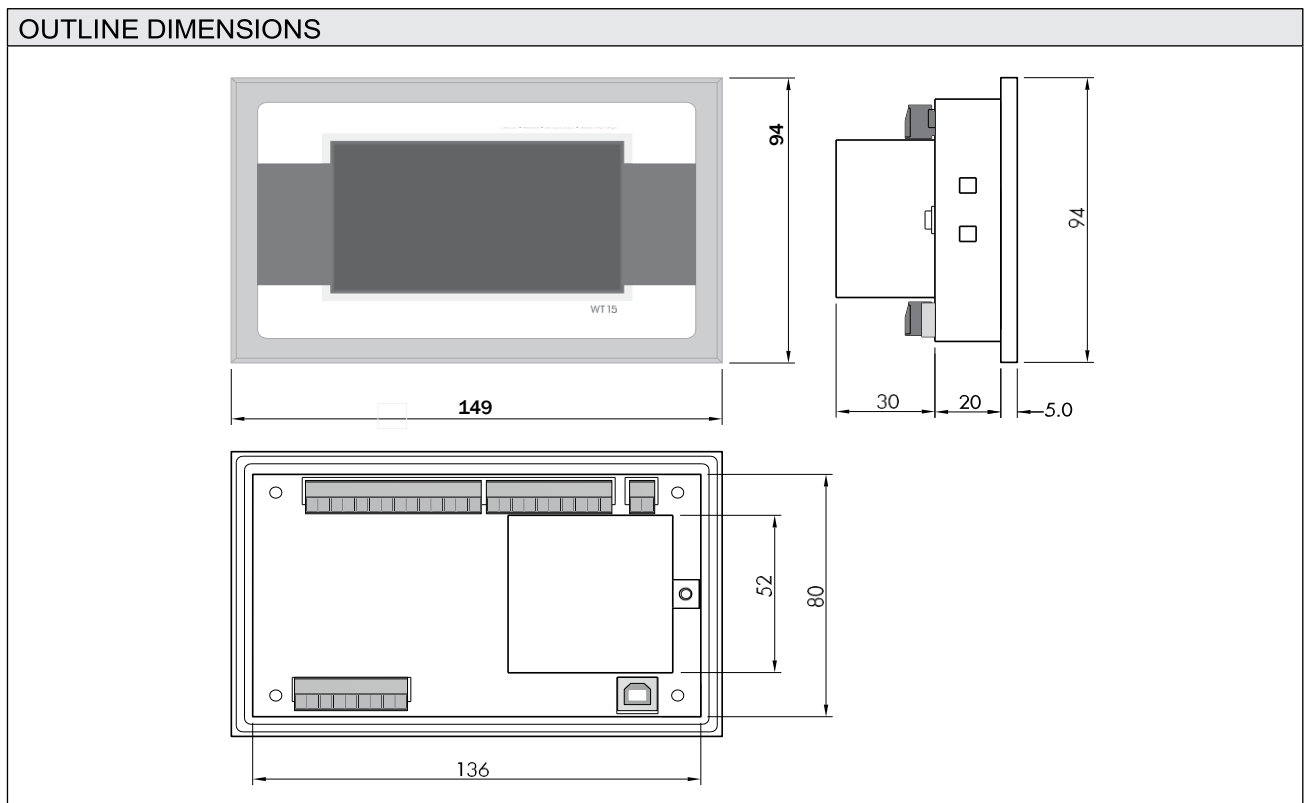


### DESCRIPTION

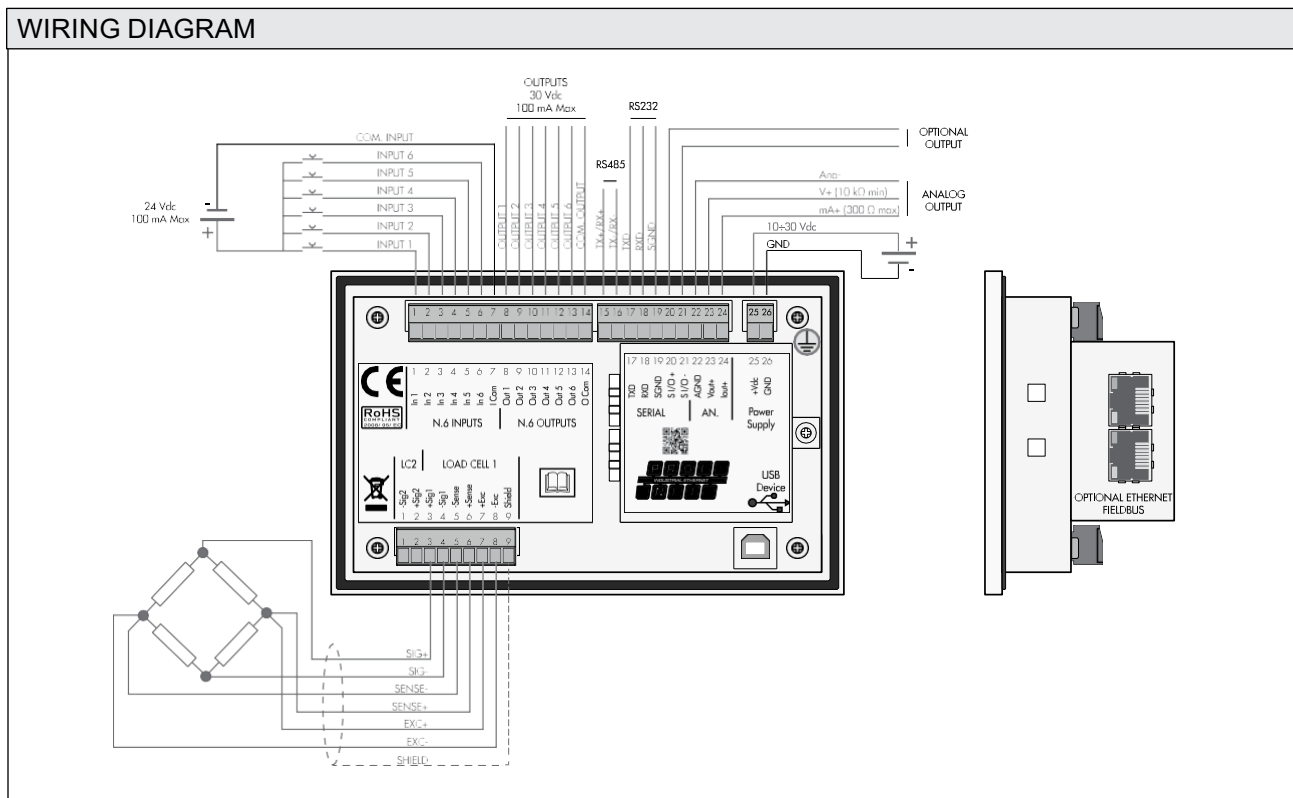
The high-quality WT15 weight indicator is appropriate for a wide range of industrial and commercial applications. Its intuitive touch screen is easy to use, and the WT15 features six input and six output ports – the most logic ports of any VPG Transducers indicator. The central

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



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

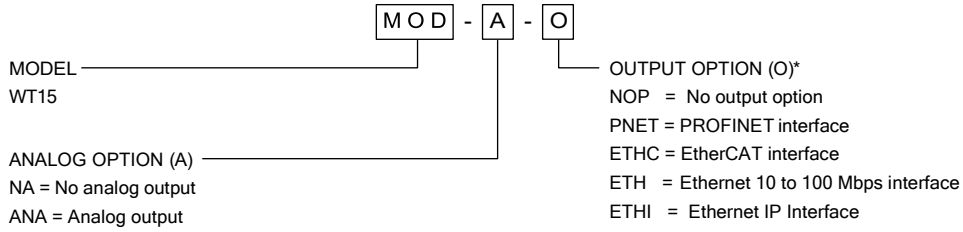
### APPROVALS

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

Ordering information is on next page.

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.

V  
i  
s  
h  
a  
y  
P  
r  
e  
c  
i  
s  
i  
o  
n  
G  
r  
o  
u  
p  
,  
I  
n  
c  
.