VPG force sensors
Celtron • Revere • Sensortronics • Tedea-Huntleigh

Weight Indicator

FEATURES

- High performance and long-term reliability
- Assembly “snap-on” DIN rail (certified to EN50022 standards)
- Able to interface with intrinsically safe barriers for use in hazardous areas

OPTIONS

- Ethernet version available
- RS485 full duplex output available
- PROFINET version available

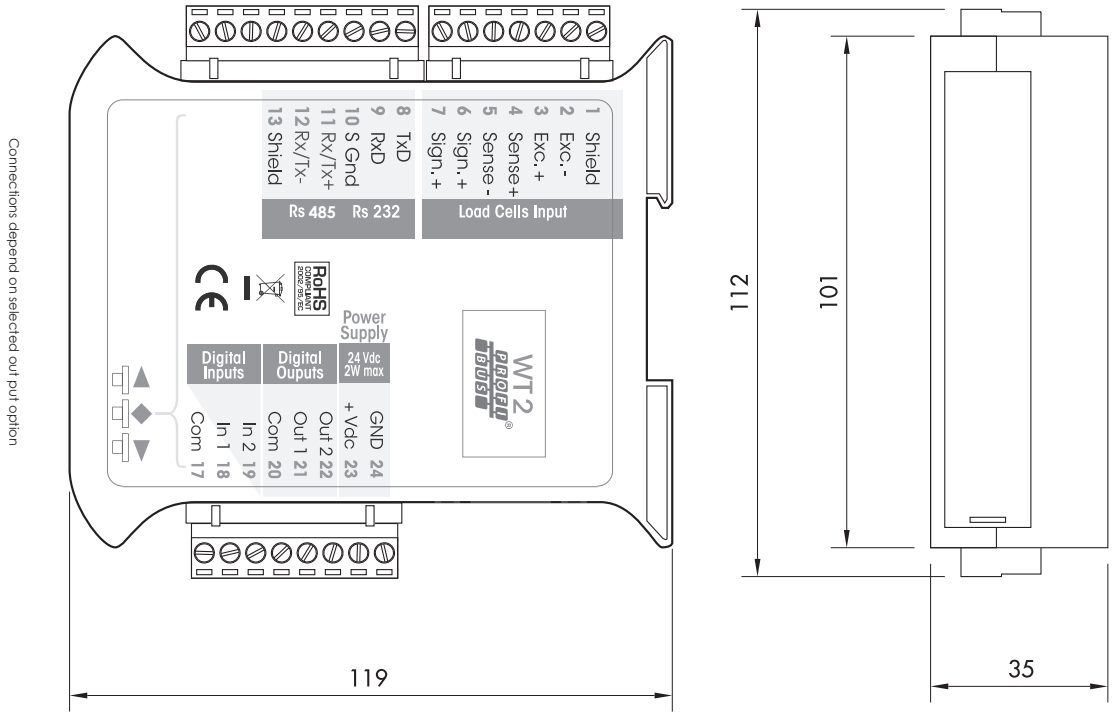
APPLICATIONS

- Various industrial systems

DESCRIPTION

The WT2 is a modified version of the WT1 with improved interfacing abilities. It uses the same 24-bit D/A converter and, when connected to a system of 1–4 load cells, the WT2 converts output signals in the same manner as the WT1. The WT2’s strength is in its connectivity. It uses PROFIBUS as its default protocol, which is faster than the MODBUS protocol and able to control more complex systems. The WT2 also features an optional Ethernet connection, which comes with a 128-byte in/out buffer for high-speed PC connections. The Ethernet cable can be augmented with the PROFINET protocol, which enables full integration into systems with that protocol.

OUTLINE DIMENSIONS



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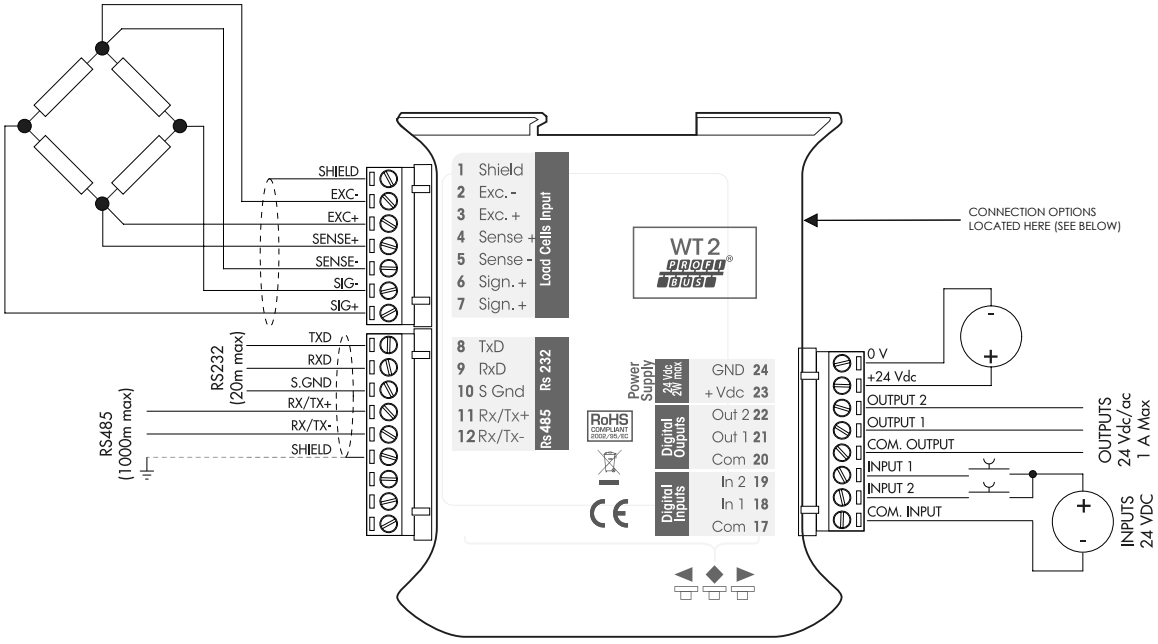
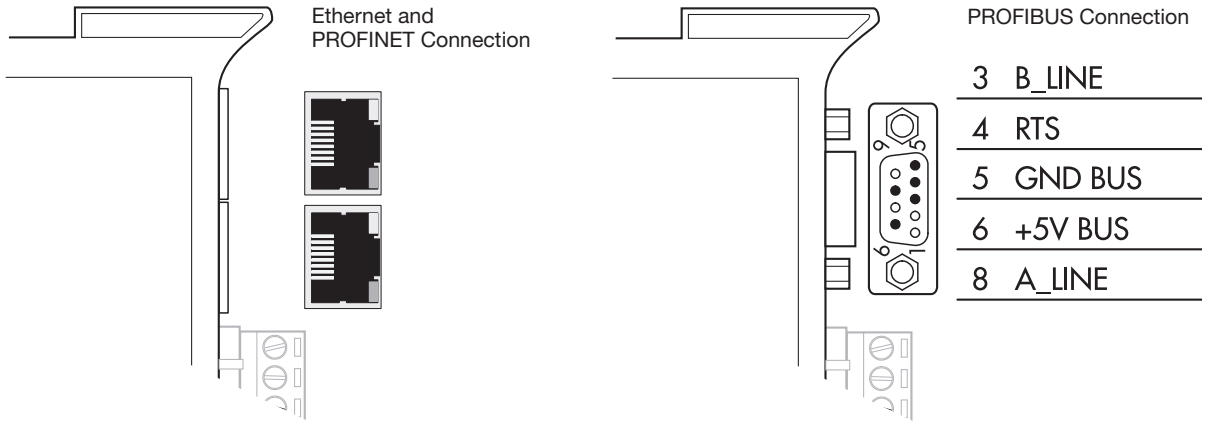
Weight Indicator

WIRING DIAGRAM



Connections depend upon selected output options

CONNECTION OPTIONS



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Weight Indicator

SPECIFICATIONS

PERFORMANCE

Power Output
4 V

Measuring Range
–4 to +4 mV/V

Input Sensitivity
0.02 µV/division

Linearity
<0.01% of full scale

Gain Drift
<0.001% full scale ˚C

D/A Convertor
24 bit

Internal Resolution
16,000,000 counts

Visible Resolution
60,000 counts (visible on net weight)

Divisions Value (Adjustable)
0.001 to 50

Filter (Adjustable)
0.2 to 25 Hz

ENVIRONMENTAL

Operating Temperature
–10 to +50 ˚C

Storage Temperature
–20 to +60 ˚C

DISPLAY AND KEYBOARD

Display
5 digit, 7 segment, LED

Digit Height
7 mm

Keyboard
3 key mechanical keyboard

ELECTRICAL

Voltage
24±10% VDC

Wattage
2 W

SERIAL COMMUNICATION

Serial Output #1
RS232C half duplex with ASCII protocol,

Baud Rate
2400 to 115200 (adjustable)

Serial Output #2 (optional)
PROFIBUS DP-V1

Baud Rate
9.6 K/sec to 12 Mbit/sec

Serial Output #3 (optional)
PROFINET

Baud Rate
According to PROFINET standards

Serial Output #4 (optional)
Ethernet

Buffer Dimensions
128 bytes in, 128 bytes out

ENCLOSURES

Dimensions
119 x 112 x 23 mm, L x H x D

Mounting
DIN rail

Electrical Connections
5.08 mm terminal screw pass,
D-Sub 9 poles female connector (Profibus version),
RJ45 connector (Ethernet and Profinet connections)

APPROVALS

EN
EN61000-6-2, EN61000-6-3 for EMC;
EN61010-1 for electrical security

Ordering information is on next page.

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ORDERING INFORMATION FOR WT2

M O D - O

MODEL
WT2

OUTPUT OPTION (O)*
PBUS = PROFIBUS DP-V1 interface
PNET = PROFINET interface
ETH = Ethernet interface

Example Completed Part Numbers:
WT2-ETH is the part number for a WT2 with an Ethernet interface.
***This is mandatory: customers must select an output option.**

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