

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

- Analog option available
- RS485 full duplex output available

APPLICATIONS

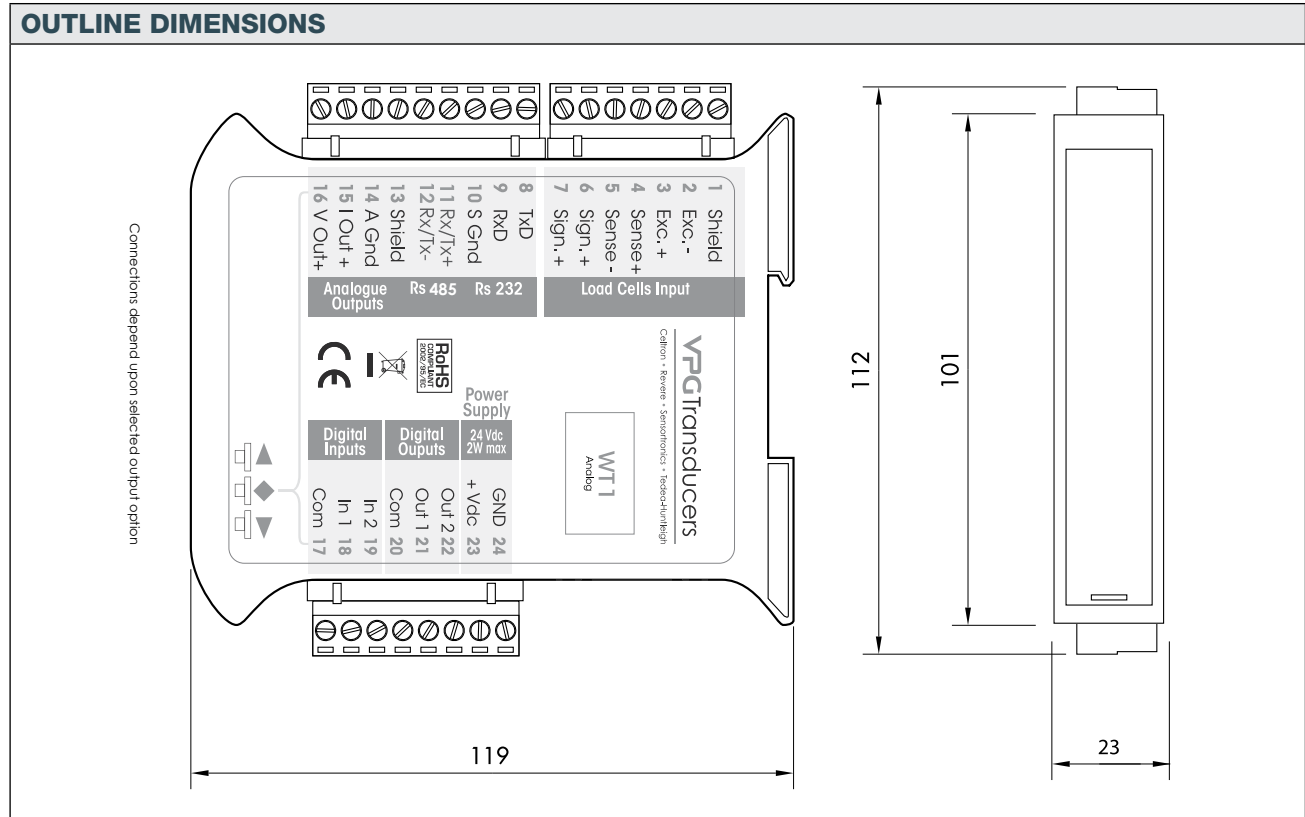
- Various industrial systems

DESCRIPTION

The WT1 provides accurate readings at an excellent price. When connected to a system of 1–4 load cells, the WT1 will convert output signals into stable, accurate weight values. This model comes with two logic outputs and two logic inputs as standard. The WT1 can be fitted with either an RS232C half-duplex or RS485 full duplex serial door; both serial doors can be loaded with ASCII or Modbus RTU protocols to enable communication with a PC or PLC.



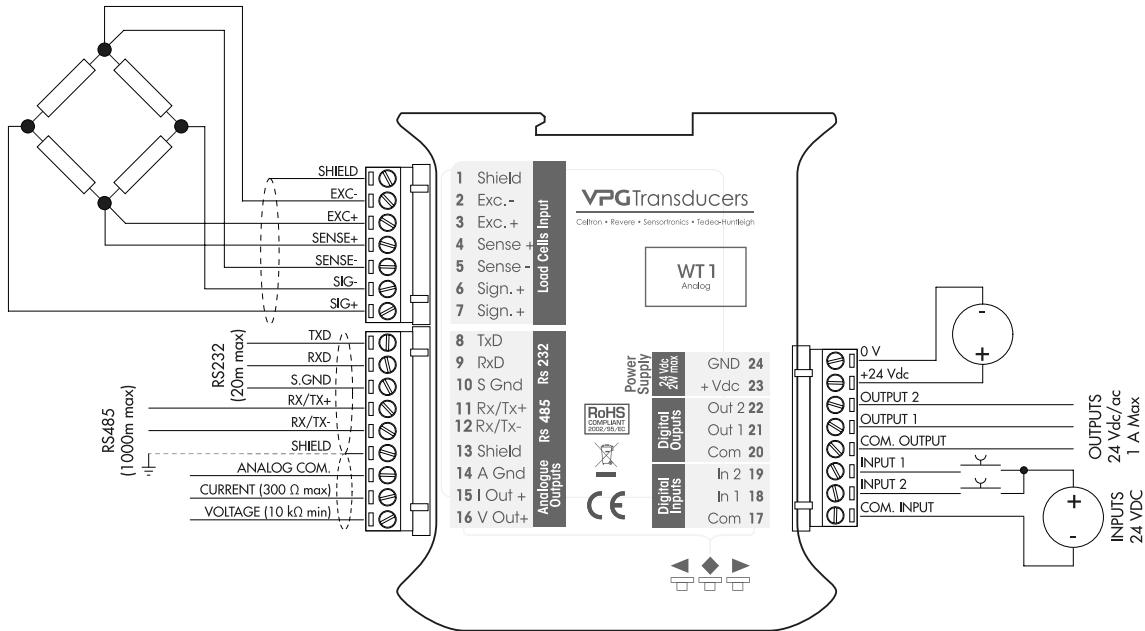
OUTLINE DIMENSIONS



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Weight Indicator

WIRING DIAGRAM



Connections depend upon selected output options

SPECIFICATIONS

PERFORMANCE

Power Output

4 V

Measuring Range

-4 to +4 mV/V

Input Sensitivity

0.02 V/division

Linearity

<0.01% of full scale

Gain Drift

<0.001% of full scale °C

D/A Convertor

24 bit

Maximum Load Cells

4 at 350 Ω

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

INPUT AND LOGICS

Logic Input

24 VCC (external voltage), 2 opto-isolated, PNP

Logic Output

2 solid state relays
(maximum load 24 VDC/100 mA each)

Weight Indicator

ANALOG OUTPUT (OPTIONAL)

Output

16 bit, opto-isolated

Tension

0 to 5/10 V, (R Min 10 k Ω)

Current

0/4 to 20 mA (R max 300 Ω)

Linearity

<0.03% of full scale

Temperature Drift

<0.002% full scale °C

SERIAL COMMUNICATION

Serial Output #1

RS485 full duplex with ASCII or
Modbus RTU protocol

Baud Rate

2400 to 115200 (adjustable)

Serial Output #2 (with Analog Output option)

RS232C half duplex with ASCII or
Modbus RTU protocol

Baud Rate

2400 to 115200 (adjustable)

ENCLOSURES

Dimensions

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

Mounting

DIN rail

Electrical Connections

5.08 mm terminal screw pass

APPROVALS

EN

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



ORDERING INFORMATION FOR WT1

MODEL

WT1

MOD - O

OUTPUT OPTION (O)*

NA = No analog option, but RS485 full duplex output

ANA = Analog option, with RS232C half-duplex output

Example Completed Part Numbers:

WT1-ANA is the part number for a WT1 with the analog and RS232C outputs.

WT1-NA is the part number for a WT1 with the RS485 output only.

***This is mandatory: customers must select an output option.**

All specifications subject to change without notice.

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