

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

- Analog option available
- RS485 full duplex output available

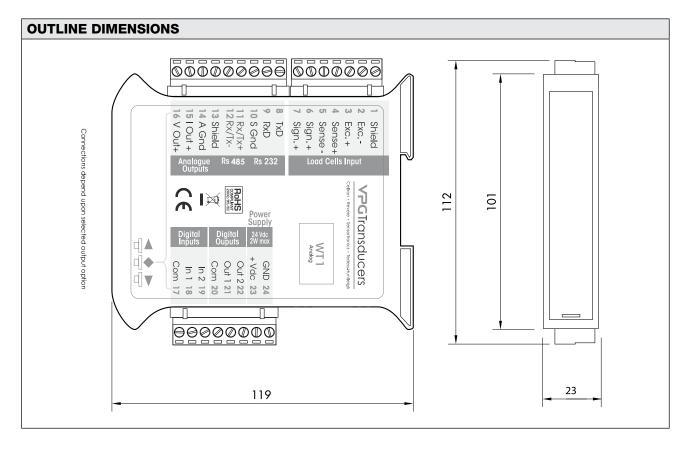
### APPLICATIONS

• Various industrial systems

### DESCRIPTION

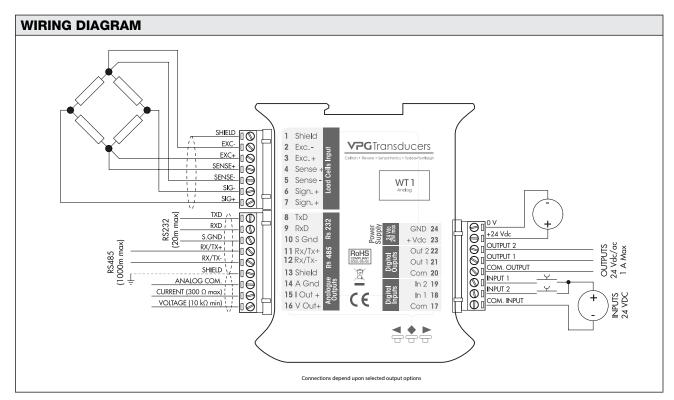
The WT1 provides accurate readings at an excellent price. When connected to a system of 1–4 load cells, the WT1 will convert output signals into stable, accurate weight values. This model comes with two logic outputs and two logic inputs as standard. The WT1 can be fitted with either an RS232C half-duplex 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.







# 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% of full scale °C

D/A Convertor 24 bit

Maximum Load Cells 4 at 350  $\Omega$ 

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

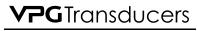
Voltage 24 ±10% VDC

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)



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#### **ANALOG OUTPUT (OPTIONAL)**

Output 16 bit, opto-isolated

Tension 0 to 5/10 V, (R Min 10 kΩ)

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)

ENCI	<b>OCI</b>	IDEC

# 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	MOD - O OUTPUT OPTION (O)* NA = No analog option, but RS485 full duplex output ANA = Analog option, with RS232C half-duplex output	
WT1-NA is	<b>Example Completed Part Numbers:</b> part number for a WT1 with the analog and RS232C outputs. the part number for a WT1 with the RS485 output only. <b>andatory: customers must select an output option.</b>	

All specifications subject to change without notice. For inquiries within Italy please contact the VPG Transducers Marketing Department directly using the email address vpgt.marketing@vpgsensors.com.



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