

Weighing Transmitter WT70

FEATURES

- Compact and practical design
- Designed to deliver reliable performance while maintaining cost efficiency.
- Real-time filtering to ensure accurate and stable readings.
- Available in serial and/or analog versions
- Various Fieldbus available through an external module
- Support analog and/or amplified in voltage/ current load cells.
- USB port for convenient firmware updates.
- VTW PC Software for enhanced configuration and monitoring.



OPTIONS

- Analog Output for additional data transmission.
- Alibi memory for extended data storage.
- Multiple fieldbus options are available for integration into various network environments.

APPLICATIONS

- Various industrial systems

DESCRIPTION

The Model WT70 is a versatile weighing indicator engineered for high performance in various industrial environments. Its compact design ensures ease of integration into existing systems, while its cost-effective performance meets the needs of diverse applications.

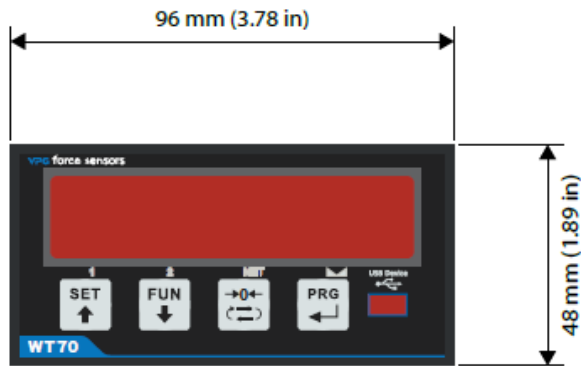
Equipped with a user-friendly four-button keyboard, the WT70 facilitates straightforward access to configuration and calibration functions. Standard features include RS232

and RS485 serial ports, as well as a USB device port, ensuring compatibility with a broad range of devices and systems. The WT70 can be customized with a variety of fieldbus options through an external module, making it adaptable to different communication standards.

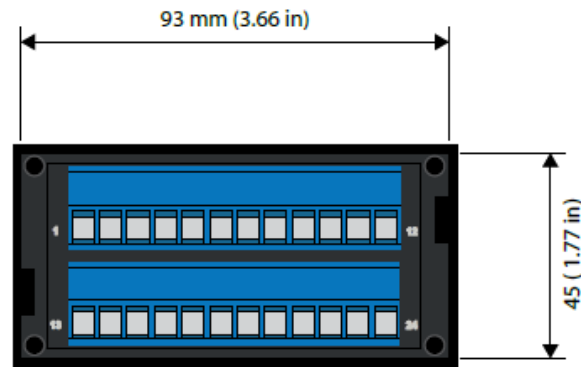
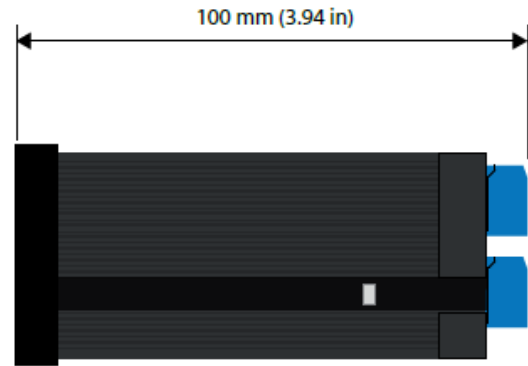
This weighing transmitter is capable of interfacing with most supervision devices currently available, making it a flexible and reliable choice for industrial weighing applications.

OUTLINE DIMENSIONS

Front View:



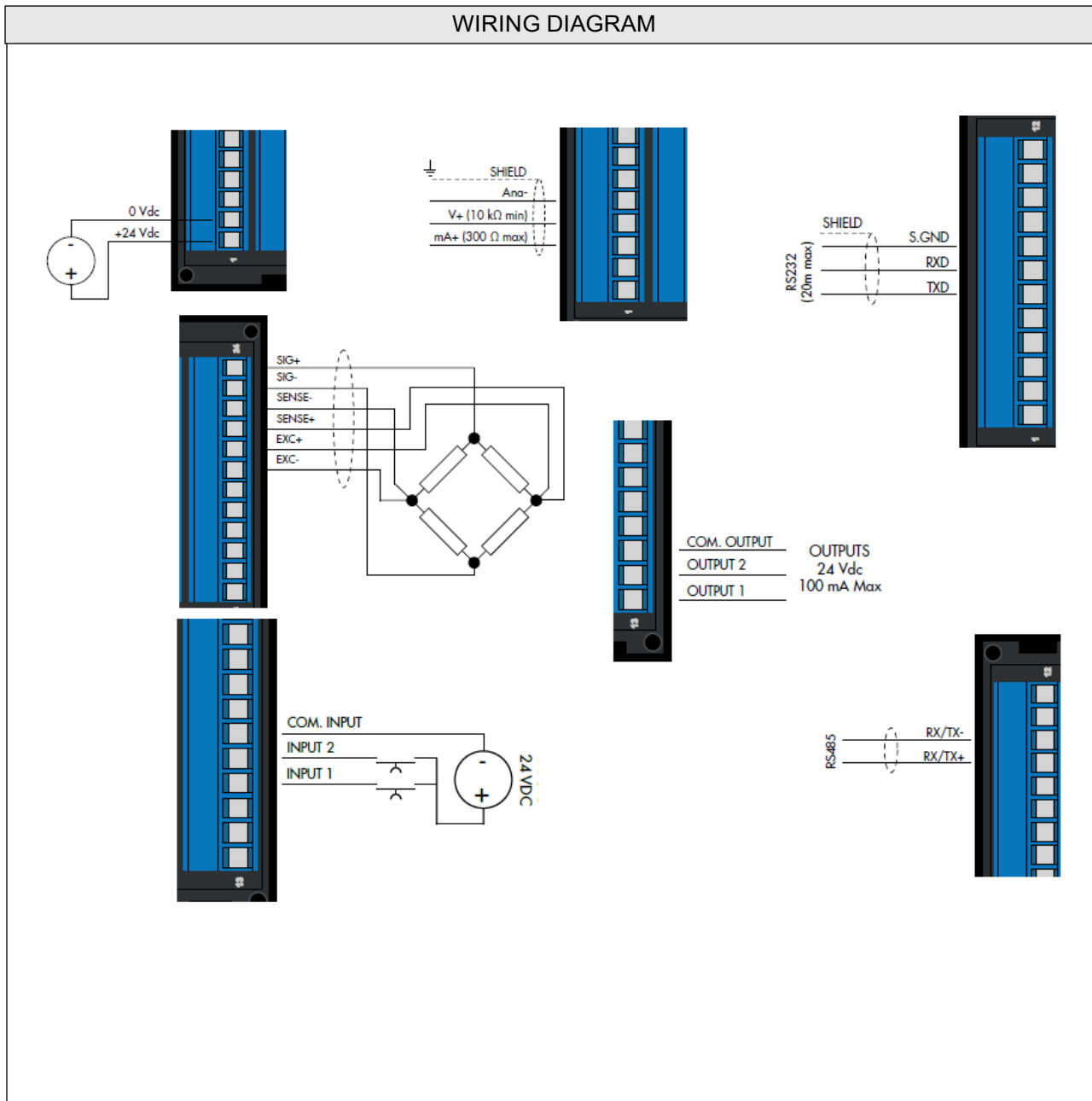
Side View:



Back view:

Weighing Instrument WT70

WIRING DIAGRAM



SPECIFICATIONS

PERFORMANCE

Excitation Voltage
5 V

Measuring Range
-7.6 to +7.6 mV/V

Input Sensitivity
0.02 μ V/division

Full scale non-Linearity
<0.01% of full scale

Temperature Drift analog output
<0.001% FS/ °C

A/D Converter
24 bits

Maximum Load Cells
8 at 350 Ω in parallel

Internal Resolution
24 bits (cell input), 16 bits (current
analog and analog voltage output)

Decimal figures range
0 ÷ 4 decimal digits

Filter (Adjustable)
0.1 to 1000 Hz

Microcontroller

32-bit ARM Cortex M0+, 256KB Flash reprogrammable
on-board by USB

Memory
32 Kbytes + optional Alibi memory (1MByte)

Serial port

Rs232 half duplex, Rs485 half-duplex, USB Device for
instrument programming and setting.

ENVIRONMENTAL

Insulation

Class II

Operating Temperature
-10 to +40 °C (max humidity 85% without condensation)

Storage Temperature
-20 to +60 °C

DISPLAY AND KEYBOARD

Display
Numerical 6 digit, red 7 segment, LED

Digit Height
14 mm

Keyboard
4 mechanical keys

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ELECTRICAL

Power supply
 10 -30 VDC Protected against reverse polarity.

INPUT AND LOGICS

Logic Input
 2 Opto-Isolated inputs
 Logic Output
 2 photo relay outputs (24 VDC/VAC one No contact) Relay contact rating 100 mA

ANALOG OUTPUT (OPTIONAL)

Resolution
 16 bits
 Voltage
 0 to $\pm 5 / \pm 10$ V
 Current
 0/4 to 20 mA
 Linearity
 0.03% of FS
 Temperature Drift
 0.002% of FS/ °C

SERIAL COMMUNICATION

Serial Output #1
 1 RS232 half duplex

Serial Output #2
 1 RS485 half-duplex

Serial Output #3
 USB device interface

Maximum cable length
 15m (RS232) and 1000m (RS485)

Baud Rate
 Up to 115Kb/s (default 9600 b/s)

Optional Fieldbus
 PROFIBUS DP V1, PROFINET, CANOPEN, ETHERNET IP, ETHERCAT, ETHERNET (with external module)

Ethernet Protocols
 TCP, Modbus/TCP, UDP, IP, ICMP, ARP. Web server integrated.

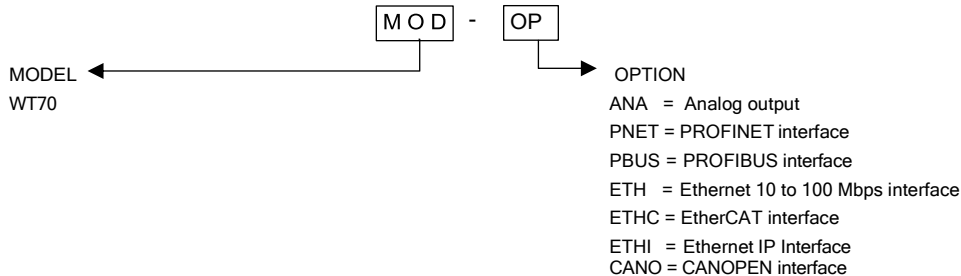
ENCLOSURES

Material
 Self-extinguishing PPO (UL 94 V0)
 Dimensions
 96 mm x 48 mm x 100 mm (w x h x d)
 Mounting
 Panel
 Electrical Connections
 Removable screw 5.08mm pitch terminal blocks.

REGULATORY COMPLIANCE

EN61000-6-2, EN61000-6-3 for EMC, EN61010-1 for Electrical Safety

ORDERING INFORMATION FOR WT70



Example Completed Part Numbers:
 WT70-ETH is the part number for a WT70 with an Ethernet interface.
 WT70-ANA is the part number for a WT70 with an analog output.
 *This is mandatory: customers must select an output option

All specifications subject to change without notice. For inquiries, please contact the VPG Force Sensors Marketing Department directly using the email address vpafs.marketing@vpgsensors.com.