

## Weighing Transmitter

### FEATURES

- Compact and lightweight design
- Easy installation; mounts on DIN rail
- High-performance A/D converter
- Mechanical keyboard with programmable keys
- Supports Fieldbus and analogue output protocols
- Removable screw terminal blocks
- USB port for firmware update
- Supported with VTW PC Software utility

### OPTIONS

- Analog output
- RS-485
- PROFINET Fieldbus

### APPLICATIONS

- Suitable for various industrial systems

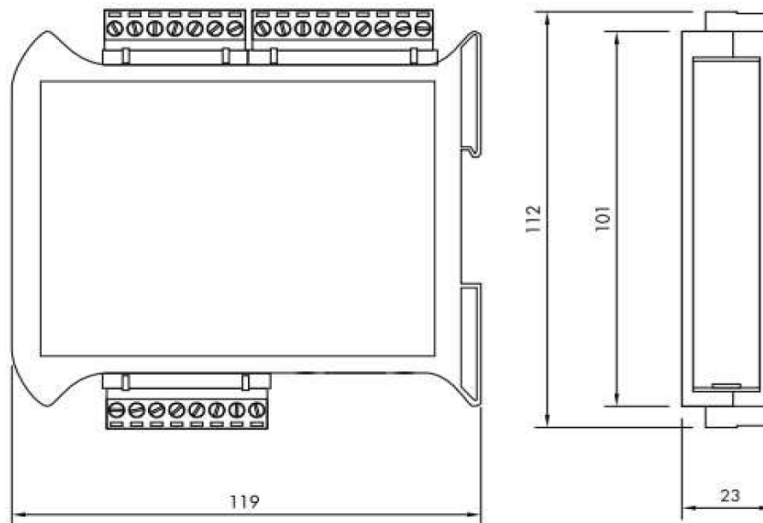
### DESCRIPTION

The Model WST5 is a versatile weighing indicator designed for a wide range of applications. It features a user-friendly hazardous four-button keyboard for easy configuration and calibration.

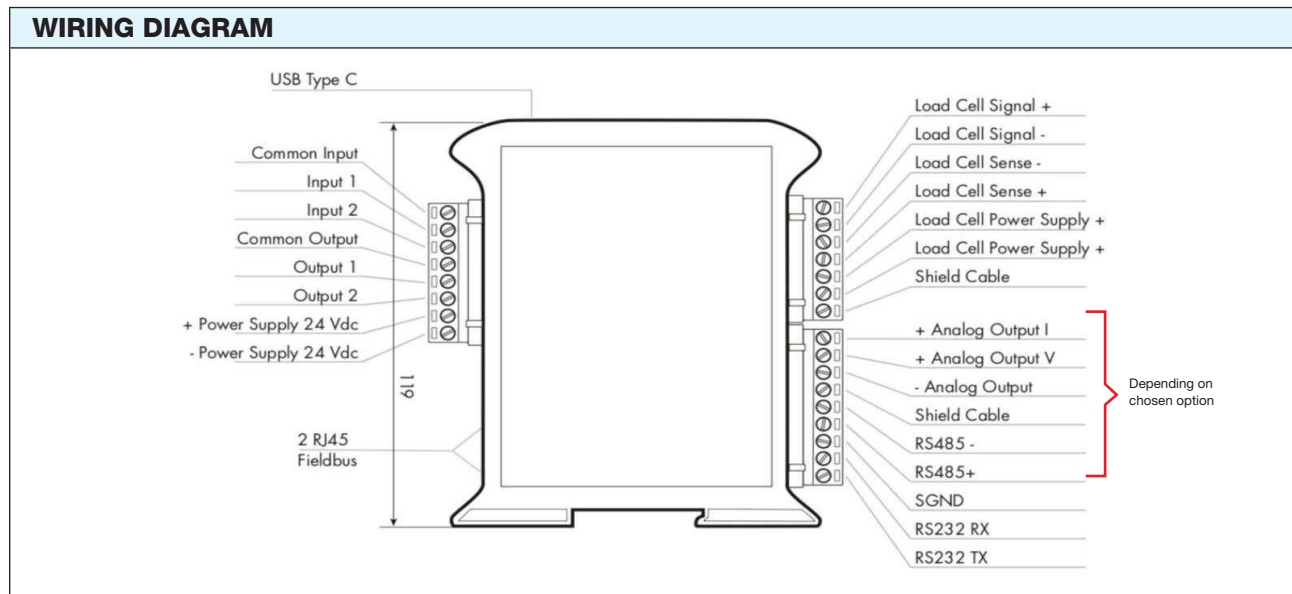


Standard features include RS232 and a USB device port. The WST5 can be equipped with PROFINET Fieldbus, analog output or RS-485 and is compatible with most supervision devices on the market.

### OUTLINE DIMENSIONS



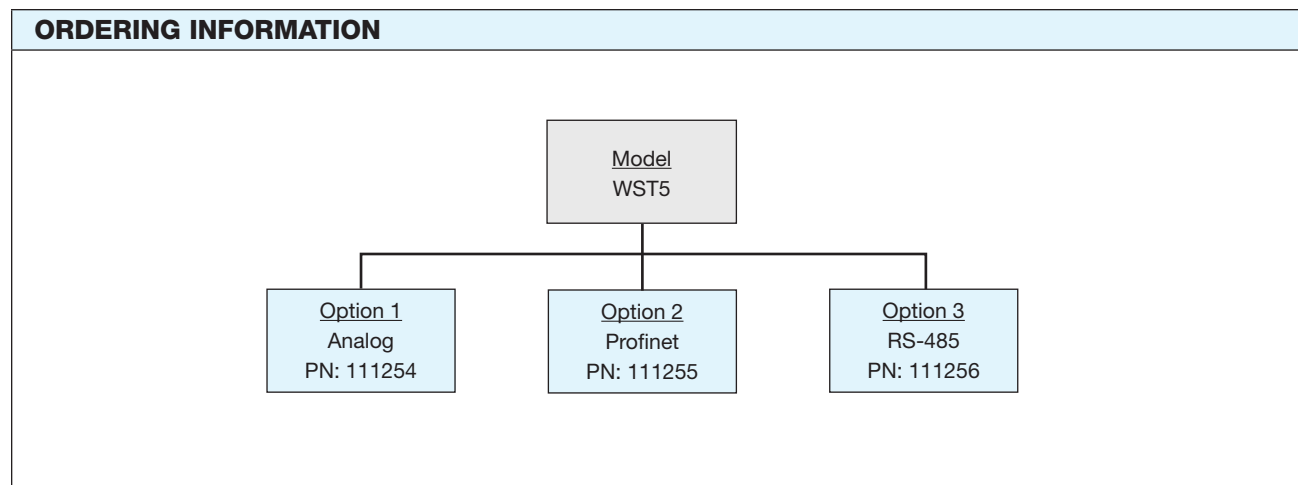
Weighing Transmitter



SPECIFICATIONS		
PARAMETER	VALUE	
<b>PERFORMANCE</b>		
Excitation voltage	4 V	
Measuring range	-7.6 to +7.6 mV/V	
Input sensitivity	0.02 µV/division	
Full scale non-linearity	<0.01% of full scale	
Temperature drift analog output	<0.002% FS/ °C	
Gain drift	0.001% FS/ °C	
A/D converter	24 bit	
Maximum load cells	4 at 350Ω (or 8 cells of 700 Ω)	
Internal resolution	>di 16,000,000 points	
Visible resolution (in divisions)	999,999	
Divisions value (adjustable)	x 1, x 2, x 5, x 10, x 20, x 50	
Decimal figures range	0 ÷ 4	
Filter (adjustable)	0.1 to 250 Hz	
Microcontroller	ARM cortex M0 + 32 bit 256KB flash reprogrammable onboard via USB	
Data storage	32 KB expandable up to 1024 KB (optional)	
Serial port	1 USB-C device + 1 RS232C and 1 RS485 with ASCII or Modbus RTU protocol or PROFINET Fieldbus	
<b>ENVIRONMENTAL</b>		
PARAMETER	MIN.	MAX.
Operating temperature	-10°C -14°F	+50°C +122°F (max humidity 85% without condensation)
Storage temperature	-20°C -4°F	+60°C +140°F
<b>DISPLAY AND KEYBOARD</b>		
Display	6 digits, LED 7 segment	
Digit height	8 mm	
Keyboard	3 mechanical keys	

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SPECIFICATIONS	
PARAMETER	VALUE
<b>ELECTRICAL</b>	
Power supply	24 ±10% VDC protected against reverse polarity
Power consumption	5 W
<b>INPUT AND LOGICS</b>	
Logic input	2 Opto-isolated inputs 24 Vdc PNP (external power supply)
Logic output	2 Opto-isolated outputs; max 24 Vdc/100 mA each
<b>ANALOG OUTPUT (OPTIONAL)</b>	
Resolution	16 bits
Voltage	0 to ±5/ ±10 V (min 10 KΩ)
Current	0/4 to 20 mA (max 300 Ω)
Linearity	0.03% of FS
Temperature drift	0.002% of FS/ °C
<b>SERIAL COMMUNICATION</b>	
Serial output #1	1 RS232 half-duplex
Serial output #2	1 RS485 half-duplex (optional)
Serial output #3	USB device interface
Maximum cable length	15m (RS232) and 1000m (RS485)
Baud rate	2400 to 115200 (adjustable)
Optional fieldbus	PROFINET optional (PROFIBUS DP V1, CANopen, EtherNet IP, EtherCAT, Ethernet)
Ethernet protocols	optional (TCP, Modbus/TCP, UDP, IP, ICMP, ARP. Web server integrated)
<b>ENCLOSURES</b>	
Dimensions	119 x 112 x 23 mm, L x H x D
Mounting	DIN Rail
Electrical connections	5 mm removal terminal blocks
<b>REGULATORY COMPLIANCE</b>	
EN61000-6-2, EN61000-6-3, EN61326-1 for EMC, EN61010-1 for Electrical Safety	





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