

DIN RAIL MOUNTED WEIGHING INDICATOR AND HIGH SPEED TRANSMITTER



Incorporating the latest up-to-date electronics, the Model XT1000 is a high performance display indicator and high speed data transmitter suitable for static and dynamic weighing and specially designed for process weighing systems as well as all types of machinery that incorporate weighing as part of their function. Applications include tanks and silos, industrial scales, filling and dosing machinery, dynamic scales and multi-head weighing systems. Owing to its DIN rail mount design and versatility of digital input/output and data transmission options, it is ideally suited to connection to PLCs, PCs and remote systems.

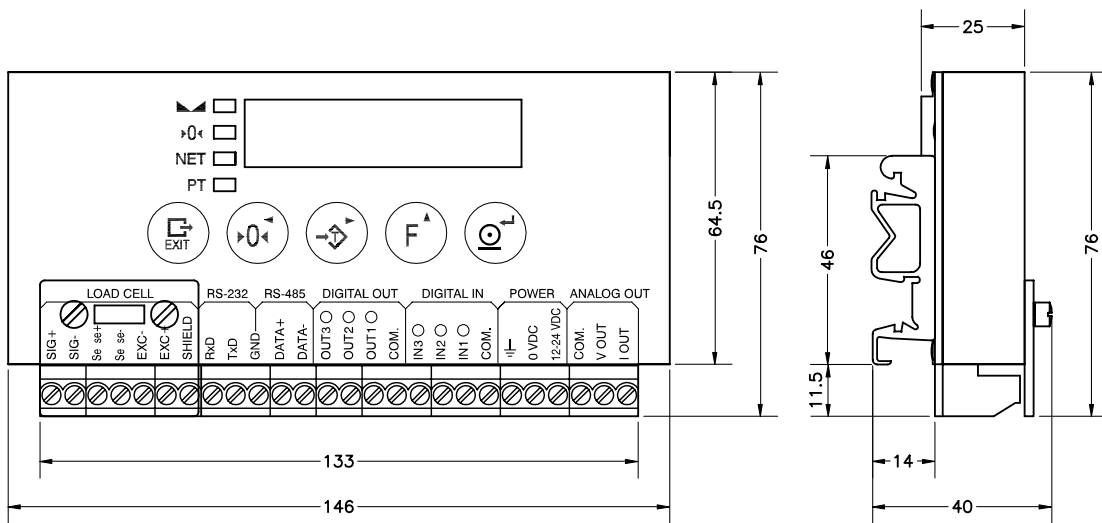
Calibration can be accomplished either by weights or by using mV/V.

Two versions are available, a basic version with serial outputs and a complete version with both serial and analogue outputs.

- 6 digit, 10mm LED display
- High resolution with 24 bits ADC and 16 million internal divisions
- 2400 measurements per second
- Inbuilt membrane keyboard for configuration and calibration
- Selectable digital filters
- Calibration protection by software or mechanically
- Powers up to 6, 350 Ω or 12, 700 Ω load cells
- RS232 and RS 485 (Modbus RTU and ASCII)
- Configurable analogue output : 0-5V, 0-10V, 0-20mA and 4-20mA with galvanic isolation
- 3 digital opto-isolated inputs and 3 digital outputs to relay
- DIN rail mounting
- 10-28 V DC power supply

XT1000

technical specification...



All dimensions in mm

XT1000 Indicator / Transmitter

Load Cell Connection	
Scale input signal range	+/- 3.9 mV/V
Resolution	ADC 24 bits; 16,000,000 internal divisions Display -99 999 to 999 999
Measuring rate	Internal: 2400 readings per second Transmission: 600 readings per second
Linearity error	≤ 0.01% of measuring range
Thermal stability	Zero: 150 nV / °C max. Span: 3.5 ppm / °C max.
Load cell excitation voltage	5.0 V DC
Minimum load cell resistance	58Ω (6 load cells of 350Ω, 12 load cells of 700Ω)

Inputs & Outputs	
Serial communications	RS-232 bi-directional
	RS-485 half-duplex
	Protocol: Own protocol, Modbus (RTU & ASCII) Transmission rates: 4800 to 115200 bauds selectable
Logical inputs	3 opto-isolated inputs with status LED
Logical outputs	3 relay outputs max. 125V AC – 30V DC, 100mA with status LED
Analogue output	Output with galvanic isolation, DAC of 16 bits
	Output voltage: 0-10V Output current: 0/4 - 20mA (<500Ω)

Additional Data	
Power supply	10V to 28V DC
Power consumption	4W maximum
Operating temperature range	-20 °C to 50 °C
Storage temperature range	-25 °C to 60 °C
Nominal shipping weight	0.3kg
Mounting	DIN rail, IP40
Operator interface	Keyboard: 5 membrane keys
	Display: 6 digit LED, 10mm high
Options	With serial outputs only (model XT1000-SO)
	With serial and analogue outputs (model XT1000-SO-AN)
Optional Power Supply	DIN rail mount power supply Universal voltage 100-240V AC 50/60Hz 24V DC output Maximum Power 15W capable of driving 4 x XT1000 units (model XT1000-PS)



Optional DIN rail mount power supply

DISTRIBUTED BY:



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Our policy is one of continuous product enhancement. We therefore reserve the right to incorporate technical modifications without prior notification.