

## PANEL MOUNTED WEIGHING INDICATOR AND HIGH SPEED TRANSMITTER



Incorporating the latest up-to-date electronics, the Model XT2000 is a high performance display indicator and high speed data transmitter suitable for static and dynamic weighing. It is specially designed for process weighing systems, as well as all types of machinery with weighing as part of their function. Because of its panel mount design and versatility of digital input/output and data transmission options, it is ideally suited to connection to PLCs, PCs and remote systems. Using the optional flexible cover, IP65 protection is possible.

Typical applications include: weighing and level measurement of tanks and silos, industrial scales, filling and dosing machines, animal weighing, high speed sorting scales and multi-head weighers. The integrated check weigher application, coupled with the high speed data capture rate of 2400 measurements/second, also makes the XT2000 ideal for use in check weighing and other dynamic applications.

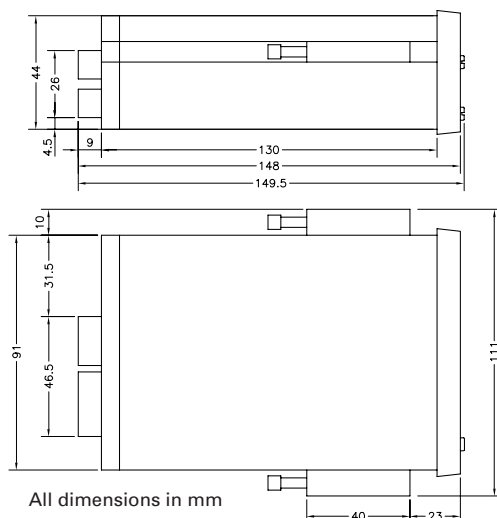
Calibration can be accomplished either by using real weights or by using the load cell sensitivity in mV/V, allowing for fast start-up and commissioning.

Four versions are available; the basic version has digital I/O, RS232 and RS485; 3 further versions add either analogue outputs, PROFIBUS or PROFINET communications.

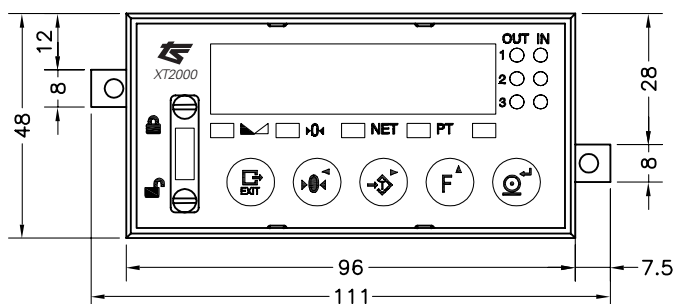
- Bright, 6 digit, 10mm LED display
- High resolution with 24-bit ADC and 16,000,000 internal divisions
- 2400 measurements per second
- Configuration and calibration using software or integral keypad
- Calibration protection by software or mechanically
- Powers up to 8, 350 $\Omega$  or 16, 700 $\Omega$  load cells
- RS232 and RS485 (Modbus RTU and ASCII)
- Optional analogue output: 0-5V, 0-10V, 0-20mA or 4-20mA (with galvanic isolation)
- Optional PROFIBUS or PROFINET version
- 3 digital opto-isolated inputs and 3 digital outputs to relay, with status LEDs
- Panel cut-out size 92mm W x 45.5mm H
- 10-28 V DC power supply. Optional AC-to-DC adapter available (DIN rail mounted)

# XT2000

technical specification...



All dimensions in mm



## XT2000 Indicator / Transmitter

Load Cell Connection	
Load cell sensitivity range	$\pm 3.9 \text{ mV/V}$
Resolution	ADC 24-bit; 16 000 000 internal divisions; 100 000 external divisions Display -99 999 to 999 999
Measuring rate	Internal: 2400 readings per second Transmission: 600 readings per second
Linearity error	$\leq 0.01\%$ 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	43Ω (8 load cells of 350Ω, 16 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 (XT2000-SO-AN version)	Output with galvanic isolation, DAC of 16 bits Output voltage: 0-10V Output current: 0/4 - 20mA (<500Ω)
PROFIBUS communication (XT2000-SO-PB version)	PROFIBUS DP-V0 (Slave)
PROFINET communication (XT2000-SO-PN version)	PROFINET I/O Real-time (Class A)

Additional Data	
Power supply	10V to 28V DC
Power consumption	4W maximum (6W for PROFIBUS and PROFINET versions)
Operating temperature range	-20 °C to 50 °C
Storage temperature range	-25 °C to 60 °C
Nominal shipping weight	0.25kg
Mounting	Panel mounting, cut-out size 92mm W x 45.5mm H
IP rating	IP40. IP65 using optional flexible cover (XT2000-IP65-COVER)
Operator interface	Keyboard: 5 membrane keys Display: 6 digit LED, 10mm high
Options	With serial outputs only (model XT2000-SO)
	With serial and analogue outputs (model XT2000-SO-AN)
	With serial outputs and PROFIBUS (XT2000-SO-PB)
	With serial outputs and PROFINET (XT2000-SO-PN)
Optional Power Supply	DIN rail mount power supply Universal voltage 100-240V AC 50/60Hz. 24V DC output Maximum Power 15W, capable of driving 3 off XT2000 (-SO and -SO-AN version) or 2 off XT2000 (-SO-PB and -SO-PN versions) Part number XT1000-2000-PS Shipping weight 0.1kg



Optional DIN rail  
mount power supply

DISTRIBUTED BY:



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Issue: XT2000.02.16



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



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