

TX11 Analogue Transmitter

Precise analogue load cell transmitter



Easy and Accurate Calibration

- 2 pcs rotary switch for zero and span adjustments.
- You can adjust the instrument output precisely because of its high external resolution.
- Calibration at PLC with default adjustment.
- Reloadable defaults.



Accurate Adjustment

- Very low drifts in long term and at temperature changes.
- Up to 60 000 resolution on analogue output.
- Up to 16 000 000 internal resolution.

TX11 analogue load cell transmitter is accurate and reliable instrument which is easily integrated into process control systems and force measurement systems. Its adjustment is as easy as digital watch adjustment. By its “digital heart”, TX11 allows easy calibration with zero and gain programming rotary switches.

Its high quality analog and digital hardware minimizes the temperature and long time zero and span drifts.

The instrument is set up to 4-20 mA and 0 – 10 V output types for 0 – 10mV load cell signal range as a factory default. This feature enables zero and gain adjustments at PLC in high resolution and accuracy. Reloading the factory default is available.

TX11 Specifications

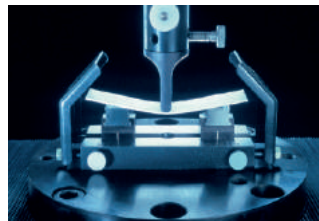
Analogue Output	
Analogue output	4-20 mA, 0-20 mA, 0-10 V or 0-5 V
D/A conversion	16 bit very low drift and very high accurate DAC
External resolution	Analogue output resolution is up to 60 000 steps.
A/D Conversion	
Load cell signal range	-19 mV to +19 mV
Minimum load cell signal range	< 1 mV
Linearity	< % 0.01
Temperature drift	< 0.007 % FSR / °C
A/D conversion	24 bit Delta-Sigma ratiometric with integrated analogue and digital filters
Internal resolution	Up to 16 000 000 counts
Weighing	
Calibration	Performed with zero and gain adjustment rotary switches on the front of the instrument.
Digital filter	Smart adaptive filter.
Load Cells	
Excitation	5 VDC
Number of load cells	Up to 4 load cells 350 Ω or up to 12 load cells 1100 Ω (min. 85 Ω)
Connection	4 wire technique.
Setup & Communication	
Front panel	3 x status LED, 2 x rotary switches
Power	
Power supply	12 - 28 VDC, max. 0.2 A
Environment and Enclosure	
Operation temperature	Between -15°C and +55°C
Humidity	At 85% RH max, non-condensing.
Enclosure	Polyamide, for DIN-rail mount, IP20
Dimensions	Front width: 22.5 mm, front length: 99 mm, height: 114.5 mm



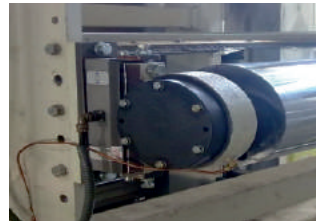
4 - 20 mA, 0 - 10 V (default)
0 - 20 mA, 0 - 5 V



Tank and silo weighing



Tensile and compressive tests



Strength measurement



Process control applications