

TX12 Analogue Transmitter

Precise and smart analogue load cell transmitter



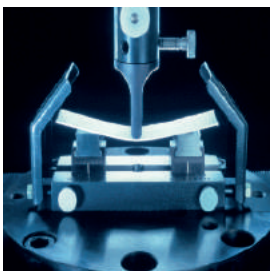
System Integration

- 4-20 mA, 0-20 mA, 0-10 V or 0-5 V analogue outputs
- Normalised, matched and high resolution analogue outputs
- Calibration at PLC side with default adjustments
- 2 relay contact outputs
- Minimized long time drifts



eCal - Electronic Calibration

- Calibration without using test weights via RS-232C port
- Provides big advantage for heavy capacity tank, silo and hopper scale calibration
- High accuracy because of instrument's normalisation process at the production



Typical Applications

- Tank and silo weighing
- Compressive and tensile tests
- Force measurement
- Strength measurement
- Process control applications
- Dosing systems



TX12 analog load cell transmitter is accurate and reliable instrument which is easily integrated into process control and force measurement systems.

Analogue output is programmable to 4-20 mA, 0-20 mA, 0-10 V or 0-5 V. Its high quality analog and digital hardware minimizes long time zero and span drifts. Its high resolution, matched and normalized analogue output gives advantage calibration at PLC and changing the instrument without recalibration.

eCal electronic calibration gives advantage easy calibration of the high capacity tanks and silos. Its additional fast calibration feature enables performing calibration similar to digital indicators.

2 cut off outputs of TX12 can be set via programming rotary switches on front of the instrument or via PC software to produce control or alarm signals.

TX12 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 changes 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 rotary switches on the front of instrument.
Electronic calibration	eCal calibration in high accuracy without test weights.
Fast calibration	Automatic zero adjustment and span adjustment with load 20% max.
Digital filter	3 step adjustable smart adaptive filter.
Set points	2 programmable free setpoints, Relay contact: 240 VAC, 0.25 A or 30 VDC 0,15 A.

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.
RS-232C	For programming from PC or PLC.
Set up and adjustment software	xFace.

Power

Power supply	12 - 28 VDC, max. 0.2 A
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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

