

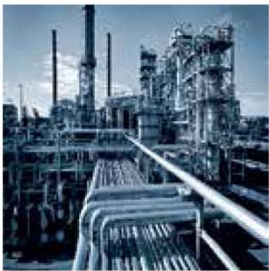
TX12 Transmitter

Precise and smart analogue load cell transmitter



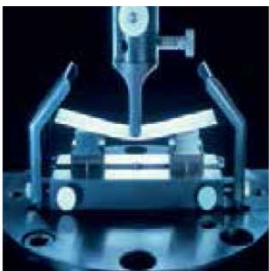
System Integration

- 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



The TX12 Analogue Loadcell Transmitter is accurate and reliable and easily integrated into process control and force measurement systems. It's adjustment is quick and easy with calibration via zero and gain programming rotary switches or using eCal Electronic Calibration via the excellent Baykon PC Setup Software.

The TX11's high quality analog and digital hardware minimizes temperature effects and long term zero and span drifts.

eCal Electronic Calibration gives the advantage of easy calibration of high capacity tanks and silos. It's additional fast calibration feature enables calibration similar to digital indicators.

The 2 digital outputs of the TX12 can be used as cut-offs and set via programming rotary switches on front of the instrument (or via PC software) to produce a control or alarm signal.

Matched production ensures quick and easy "out of the box" replacements during breakdowns without the need for re-calibration at the PLC.

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 units of 350 Ω or 12 units of 1100 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

(Specifications are subject to change without notice. 05 / 2016)

