

## **TX2 Digital Load Cell Transmitters**

Precise Digital Weighing Data to PLCS











## **Features**

- Communication: RS-232C, RS-485, Ethernet TCP/IP, Profibus, Modbus RTU, Modbus TCP/IP Profinet, CANopen
- High speed: 800 convertions/sn
- Weighing functions: Zeroing & taring power-on zero, AZT, net indication at power on, motion detection
- Software support: Windows based BAYKON xFace software for calibration and setup via PC
- eCal: Electronic calibration without test weight
- Vibration filter: Configurable active filter for stable weight

The TX2 Digital Transmitter is ultra fast (800 measurements per second), accurate and reliable and easily integrated into process control and force measurement systems. It's setup is quick and easy with free Xface PC Software and calibration can be done via standard weights, fieldbus commands or using eCal Electronic Calibration.

A programmable smart filter minimizes any ambient vibration to produce the best possible filtered signal to your PLC for any weight and force measurement systems. Matched production ensures quick servicing as transmitters can be directly replaced out of the box without the need for calibration.

eCal Electronic Calibration gives the advantage of easy calibration of high capacity tanks and silos.

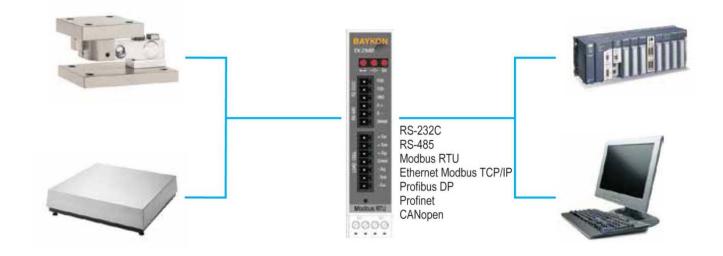
DIN Rail mounting makes the TX2 easy to incorporate into new or existing cabinets.

Phone: 0845 601 7464

Email: sales@phoenixscales.co.uk

TX2 Series Instruments	TX2-AD : RS-232C and RS-485
	TX2-EN: Ethernet Modbus TCP/IP
	TX2-MB: Modbus RTU
	TX2-PB: Profibus DP
	TX2-PN: Profinet
	TX2-CO: CANopen
A/D Converter	
Туре	24 bit Delta-Sigma ratiometric with integral analog and digital filters
Conversion rate	Up to 800 measurements per second
Minimum input voltage	<1 mV
Minimum input sensitivity	0.1 µV per interval
Analogue input range	0 mV to 18 mV unipolar or -18 mV to 18 mV bipolar
Linearity	Within 0.0015% FS, 2 ppm/°C
Resolution	Internal up to 8 000 000; External up to 100 000 counts in Weighing / Force modes,
	1 000 000 counts for unipolar input and for selected range in Count mode and
0 1 0 111 11 15 11	2 000 000 counts for bipolar input and for selected range in Count mode
Scale Calibration and Functions	Destate with the Nove Form of California
Calibration	By etalon weights: Via xFace software or fieldbus
	eCal: Electronic calibration without etalon weights via xFace
	Count mode: All instruments are adjusted in production for equal performance. Calibration at PLC side
Digital filter	10 step adjustable digital adaptive filter
Weighing functions	Tare, zero, auto zero tracking, motion detection, auto-zero at power-up
Load Cell	FUD0
Excitation	5 VDC, max. 100 mA
Number of load cells	Up to 6 load cells 350 $\Omega$ or 18 load cells 1100 $\Omega$ in parallel
Connection	4 or 6 wire technique. Cable length 274 m/mm² for 6 wire connection
Communication	
Serial Interface RS-232C	9600 baud, 8 None 1, Continuous or demand (BSI mode)
Serial Interface RS-485 (TX2-AD and TX2-MB)	1200 to 57600 baud, 7 even/odd, 8 None 1, demand (BSI mode) or Modbus RTU
Modbus RTU interface (TX2-MB)	Up to 31 units on the bus, Baudrate up to 57600
Modbus TCP/IP (TX2-EN)	10Mbits (half dupplex), galvanically isolated
Profibus DP V1 interface (TX2-PB)	9,6 kbits/s to 12 Mbits/s automatic baudrate detection
ProfiNet interface (TX2-PN)	100Mbits (full dupplex), galvanically isolated
CANopen interface (TX2-CO)	10 kbits/s to 1 Mbits/s automatic baudrate detection
Power Supply and Others	
Power Supply	11 to 28 VDC, max. 100 mA (TX2-AD and TX2-MB), max. 300 mA (others)
Enclosure	Between -15°C and +55°C at 85% RH max, non-condensing
Operation Conditions	Polyamide, for DIN-rail mount, protection class IP20

(Specifications are subject to change without notice. 03 / 2015)





34 Oldbury Road West Bromwich

Email: sales@phoenixscales.co.uk

Phone: 0845 601 7464

West Midlands, B70 9ED.

Phoenix Scales Limited