

P2X



Weight / force multifunction indicator - 5 digit - DIN96x48

REEL TORINO data sheet

DL3UK0011A0

SPECIFICATIONS

- ✓ **Four-wire input from a load cell (strain-gage); sensitivity 1,6...3,6 mV/V; cell supply 10 Vdc**
- ✓ **Tare weight subtraction; reset**
- ✓ **Self-learning of the adjusting levels**
- ✓ **Versions: 2 or 4 relays 5A/250Vac**
- ✓ **Double analog outputs 4..20mA & 0..10Vdc**
- ✓ **Serial communication: Field bus type MODBUS RTU (RS485) or double RS232 ports**

VERSIONS

The following versions are available:

- Indicator (4 alarm thresholds max): P2X__
- Indicator with double analog output (4 alarm thresholds max): P2X__T
- Indicator with MODBUS RTU port (4 alarm thresholds max): P2X__D
- Indicator with RS232 double serial port (4 alarm thresholds max): P2X__R.

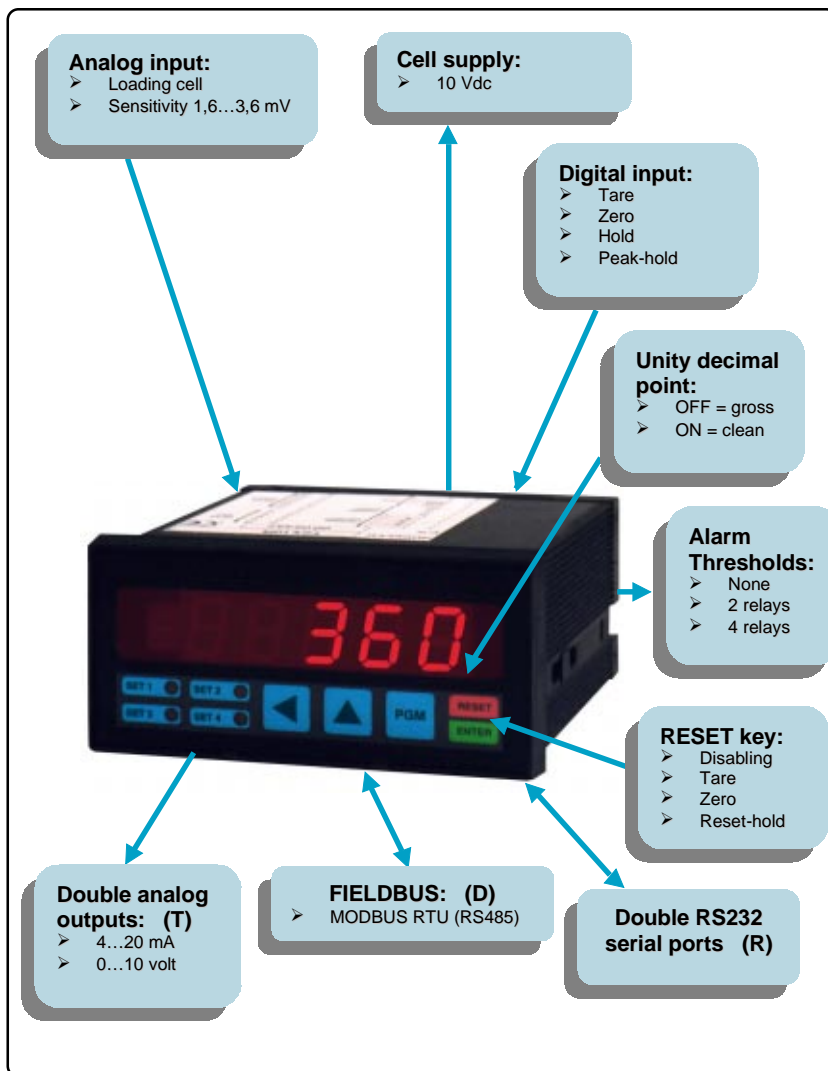
APPLICATION & PERFORMANCE

P2X series indicators can acquire the signals coming from the load cell, so as to measure weight, intensity, traction and compression.

P2X peculiar feature is in being suitable for a wide range of applications: (stress, resistance and destructive tests), dosing, production controls, filling for car, shoe, textile, concrete industries and more.

The measuring system can be adjusted thanks to the self-learning option.

The use of the device is simplified by programming an easy four-digit touch panel together with a serviceable led display.



Reliability

P2X

Weight / force multifunction indicator - 5 digit - DIN96x48

GENERAL SPECIFICATIONS

PACKAGE

Case: panel mount 96x48 mm frontal IP54
 Cutout dimension: 92x45 mm; depth: 100 mm
 Case material: Noryl
 Keyboard: 4 membrane pushbuttons
 Connections: by extractable terminal block

ANALOG INPUTS

Measuring inputs: load cell (strain-gage)
 Connection: 4 wire
 Sensitivity: 1,6...3,6 mV/V
 Excitation voltage: 10 Vdc (one cell max.)
 Accuracy: <0,02% ±1 digit
 Linearity: 0,01% ±1 digit
 Impedance: >2,2 Mohm
 Stability: <100 ppm/°C

DIGITAL INPUTS (IN1, IN2)

Signal: mechanical or NPN; max 20V / 6mA

A/D CONVERTER AND INDICATOR

Display (red led): 5+1 digit (polarity);
 max displayed value ±99999
 Character height: 12,5 mm
 Rading scale and d.p.: programmable
 A/D resolution: ± 20000 point (con 1,6 mV/V)
 Average conversion time: 250 ms

POWER SUPPLY

Power supply: 24, 115, 230Vac, 24Vdc [1], 24VDCI [2]
 Consumption: max 3,3 VA (3W)
 Tolerance: ±10 %; frequency (AC): 50/60 Hz
 Data storage memory: EEPROM

AMBIENTAL CONDITIONS

Operating temperature: -10 ÷ 50 °C
 Relative umidity: 0...95% not condensing
 Storage temperature: -25 ÷ 70 °C

ALARM THRESHOLDS AND OUTPUTS

Alarms: 2, 4 relays
 Differential: fixed ± 1 digit
 Relays: 5A / 250V

DOUBLE ANALOG OUTPUT (T option) [3]

Proportional to display value; start of scale and end of scale position programmable

Signals: 0-10Vdc (minimum load 1Kohm)
 4-20mA (maximum load 250 ohm)
 Resolution: 2000 points
 Accuracy: 0,01 %;
 Linearity: 0,0025 %

RS485 SERIAL PORT - MODBUS (D option) [3]

Communications protocol: MODBUS RTU
 Profile: all parameters
 Baud rate: 300...19200 baud
 Address: range 1... 247 (0 – broadcast)
 Configuration: 8 bit data; parity none; 1 stop bit

DOUBLE RS232 SERIAL PORT (R option) [3]

Protocol: read only measured value
 Baud rate: 150...9600 baud
 Address: range 1... 254
 Configuration: 8 bit data; parity none; 1 stop bit

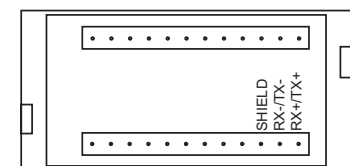
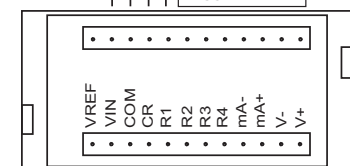
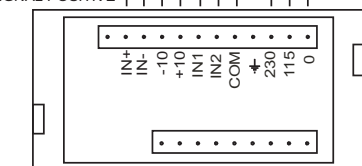
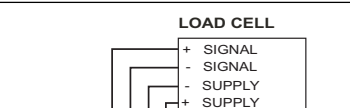
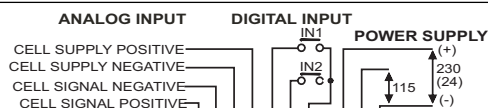
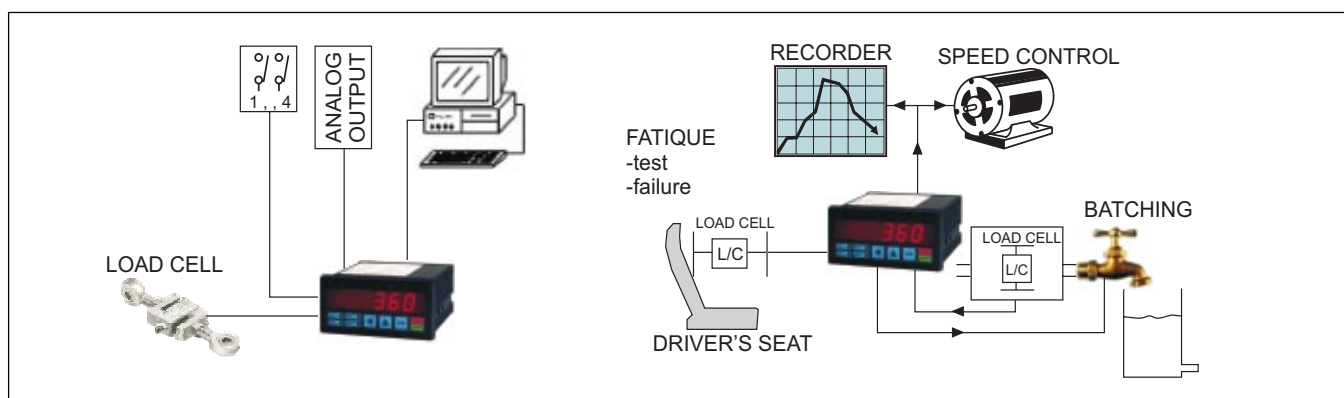
CONFORMITY TO CEE GUIDELINES

Directive: CEE 93/68
 CEE 89/336 (EMC)
 CEE 73/23 (BT)

[1] 24Vdc power supply not galvanically insulated version: negative input signal short-circuit to negative power supply.

[2] 24Vdc power supply galvanically insulated version.

[3] the above mentioned technical references are related to the P2X versions chosen.



REEL Torino

via Aosta 5 - 10044 - Pianezza (TO)
 tel. (011) 9661171 - telefax (011) 9661271
 http www.reeltorino.it
 email international@reeltorino.it

Reliability