

Panel Mount Load Cell

# DIGITAL INDICATOR

INTUITIVE2-L  
Series



- Simple, Menu-Free Operation
- 6 Digit Display
- Compatible with Strain Gauge Based Sensors
- Robust Construction
- Panel Mounted, 1/8 DIN Size
- Front Face Sealed to IP65
- 3 YEAR WARRANTY

#### Options Available

95-265VAC or 11-30VDC Supply

Analogue Outputs

2x or 4x Mechanical Alarm Relays (rated 5A @ 250Vac), 2x SPCO Relays or Dual Solid State Relays

RS232, RS485, Ethernet or Profibus DP Data Output

## **DESCRIPTION**

The Intuitive2-L digital indicator meter is simple to configure and easy to use because it has no menu system. Look at the front panel above... to adjust ZERO you press the ZERO button, to adjust Span you press the SPAN button, to adjust Analogue Output you press the OUTPUT button, to adjust Alarms you press the ALARM button. There is no need to spend time learning a complex menu system.

The meter's main function is to display physical variables, such as weight, load, force and torque. It provides you with a 10V regulated excitation supply, capable of powering up to four 350 Ohm loadcells. This can be used in 4 wire or 6 wire installations. You can linearise signals with the 10 point user configurable lineariser, a standard feature.

Peak and valley memories allow you to view the maximum and minimum recorded measurements. Also, the meter can give alarm outputs, scaled and isolated analogue output and isolated serial data retransmission when fitted with option boards.

The front panel has a 6 digit, 7 segment window for displaying the measurement. It allows decimal point and minus sign characters to be included and has 4 alarm annunciators to show the status of each alarm relay.

A lockout switch on the rear of the meter saves your configuration settings in non-volatile memory, which has a 10 year guaranteed storage period. When the lockout switch is set to ON, your settings cannot be accidentally altered.

As usual, our 3-year warranty applies to the Intuitive2-L and any transducers supplied with it.

*Transducer Specialists...*

## **APPLIED MEASUREMENTS LIMITED**

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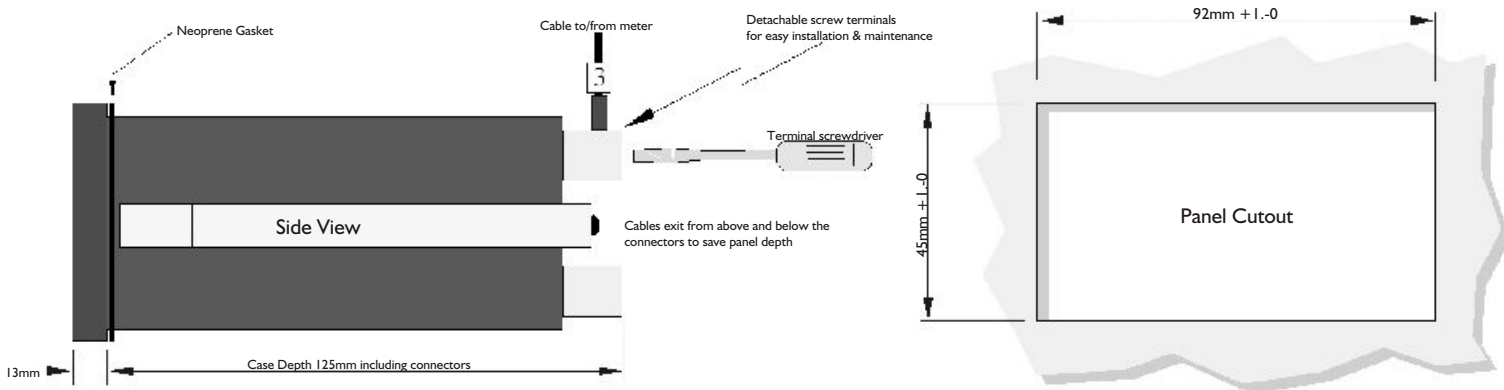


# SPECIFICATION

CHARACTERISTICS	INTUITIVE2-L	UNITS
Display:	6 digit, 7 segment LED, 14mm high (-199999 to +199999)	
Resolution:	1:400,000 max. (bipolar)	
Display Update Rate:	10/second	
Accuracy:	< ±0.05	% of range of mV input
Bridge Excitation:	10.0±0.1% (option: 5.0±0.1%)	volts dc
Maximum Excitation Current:	120.0	mA
Input Range:	0.5-3 (options: 5, 10, 30, 100 or 500)	mV/V for max. display reading
Input Impedance:	>10	Megohms
Digital Filtering:	0 to 5 (adjustable)	seconds effective time constant
Display Count By:	1, 2, 5, 10, 20, 50 digits (selectable)	
Analogue Output (Optional):	±10Vdc, 0-10Vdc or 4-20mA	
Operating Temperature:	0 to +50	°C
Thermal Drift:	Span = 25, Zero = 30	ppm/°C
Operating Voltage:	95-265VAC (11-30VDC optional)	
Environmental Protection:	IP65 (IP67 optional)	
Weight:	300	Grammes
Panel Cutout:	1/8 DIN (92mm x 45mm +1/-0)	
Features:	Tare facility, peak & valley detection, 10-point linearisation, 1 program memory (8 optional)	
Trip Outputs (Optional):	2x or 4x relays rated 5A @ 250Vac, 2x SPCO or 2x solid state	
Serial Data Output (Optional)	RS232 / RS485 / Ethernet / Profibus DP	

Please consult sales regarding option requirements

## All dimensions in millimetres



## Ordering Guide - Create a part number using the following table

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Analogue Output	
No output	-0
4-20mA	-ANI
0-10Vdc	-ANV
±10Vdc	-ANB

Alarm Output	
No alarms	-0
2 alarms	-AL2
4 alarms	-AL4
2x SPCO	-SPCO
Dual Solid State	-DSS

Serial Data Output	
No data	-0
RS232	-232
RS485	-485
Ethernet	-EN
Profibus DP	-PDP

Display Colour	
Red	-R
Green	-G
Red (Daylight Viewing)	-RDLV
Blue	-B
Yellow	-Y
White	-W

Supply Voltage	
95-265VAC	-AC
11-30VDC	-DC

Special Requirements	
8 prog. Memory	-MEM
100 conv/sec	-100X
Plain lens	-PLAINLENS
IP67 cover	-SPC4

