

Panel Mount Load Cell

# DIGITAL INDICATOR

INTUITIVE-L  
Series



- **SIMPLE, MENU-FREE OPERATION**
- **5 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

2 or 4 Mechanical Alarm Relays (rated 5A @ 250VAC)

RS232, RS422 or RS485 Serial Data Output

100 Conversions/Second (10/second standard)

#### DESCRIPTION

The Intuitive-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 5 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.

Transducer Specialists...

**APPLIED MEASUREMENTS LIMITED**

3 MERCURY HOUSE - CALLEVA PARK - ALDERMASTON - BERKSHIRE - RG7 8PN - UK

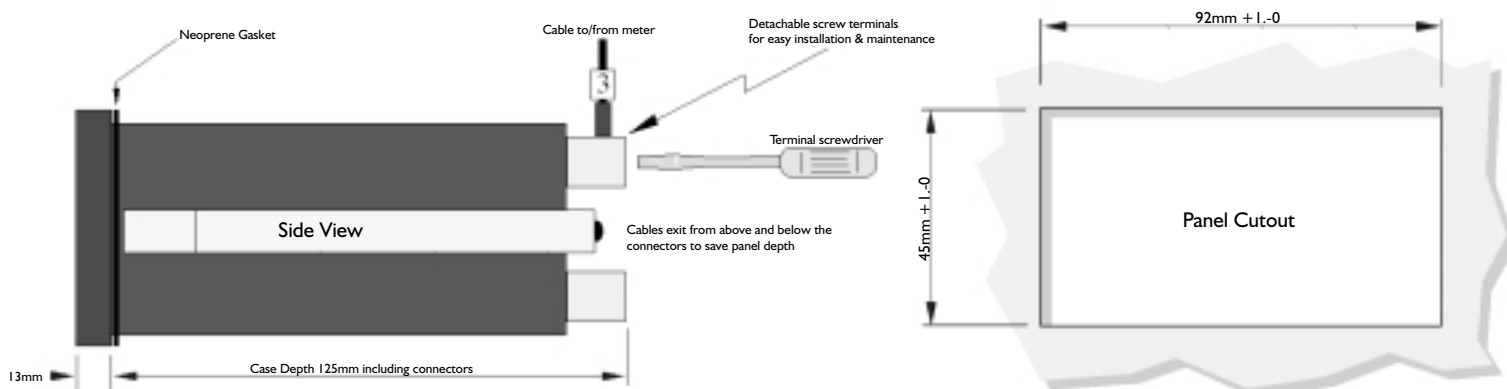
Tel: (+44) 0118 981 7339 Fax: (+44) 0118 981 9121 email: info@appmeas.co.uk Internet: www.appmeas.co.uk



# SPECIFICATION

CHARACTERISTICS	INTUITIVE-L	UNITS
<b>Display:</b>	5 digit, 7 segment LED, 14mm high (-19999 to +99999)	
<b>Resolution:</b>	1:63,000 max. (bipolar)	
<b>Accuracy:</b>	< ±0.05	<b>% of range of mV input</b>
<b>Bridge Excitation:</b>	10.0±0.1%	<b>volts dc</b>
<b>Maximum Excitation Current:</b>	120.0	<b>mA</b>
<b>Input Range:</b>	1 to 5	<b>mV/V for max. display reading</b>
<b>Input Impedance:</b>	> 10	<b>Megohms</b>
<b>Digital Filtering:</b>	0 to 5 in 0.5 increments	<b>seconds effective time constant</b>
<b>Display Count By:</b>	1, 2, 5, 10, 20, 50 digits (selectable)	
<b>Analogue Output (Optional):</b>	±5VDC, 0-10VDC or 4-20mA	
<b>Operating Temperature:</b>	-10 to +50	<b>°C</b>
<b>Thermal Drift:</b>	Span = 50, Zero = 20	<b>ppm/°C</b>
<b>Operating Voltage:</b>	95-265VAC (11-30VDC optional)	
<b>Peak &amp; Valley Sample Rate:</b>	100 (10 optional at reduced display resolution)	<b>Milliseconds</b>
<b>Environmental Protection:</b>	IP65 (IP67 optional)	
<b>Weight:</b>	300	<b>Grammes</b>
<b>Panel Cutout:</b>	1/8 DIN (92mm x 45mm + 1/-0)	
<b>Features:</b>	Tare facility, peak & valley detection, 10-point linearisation, 1 program memory (8 optional)	
<b>Trip Outputs (Optional):</b>	2 or 4 relays, rated 5A @ 250VAC	
<b>Serial Data Output (Optional)</b>	RS232, RS422 or RS485(output baud rate fixed @ 1200)	

## All dimensions in millimetres



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

INT	-	-	-	-	-	-	-
<b>Select Function Type</b>	<b>Analogue Output</b>	<b>Alarm Output</b>	<b>Serial Data Output</b>	<b>Display Colour</b>	<b>Supply Voltage</b>	<b>Special Requirements</b>	
Process -P	No output -0	No alarms -0	No data -0	Red -R	95-265VAC -0	8 prog. Memory -MEM*	
Integrator -I	4-20mA -ANI	2 alarms -AL2	RS232 -232	Green -G	11-30VDC -DC	100 conv/sec -100X	
Temperature -T	0-10V -ANV	4 alarms -AL4	RS422 -422			Plain lens -PLAINLENS	
Load Cell -L	-5/+5V -ANB		RS485 -485			IP67 cover -SPC4	
Resistance -R							
Frequency -F							
Counter -C							
Serial Display -S							

\*INT-L, INT-P & INT-R only

