

## Panel Mount Process Input

# DIGITAL INDICATOR

INTUITIVE-P  
Series



- Simple, Menu-Free Operation
- 5 Digit Display
- Process Inputs: 4-20mA, 0-10Vdc, 1-5Vdc, 0-10mA, etc.
- 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, RS485, DeviceNet, Modbus, Ethernet or Profibus Serial Data Output

100 Conversions/Second (10/second standard)

### DESCRIPTION

The Intuitive-P 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 24V regulated excitation supply, capable of providing up to 100mA of current to power a wide range of sensors and transducers. Signals can be linearised using 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

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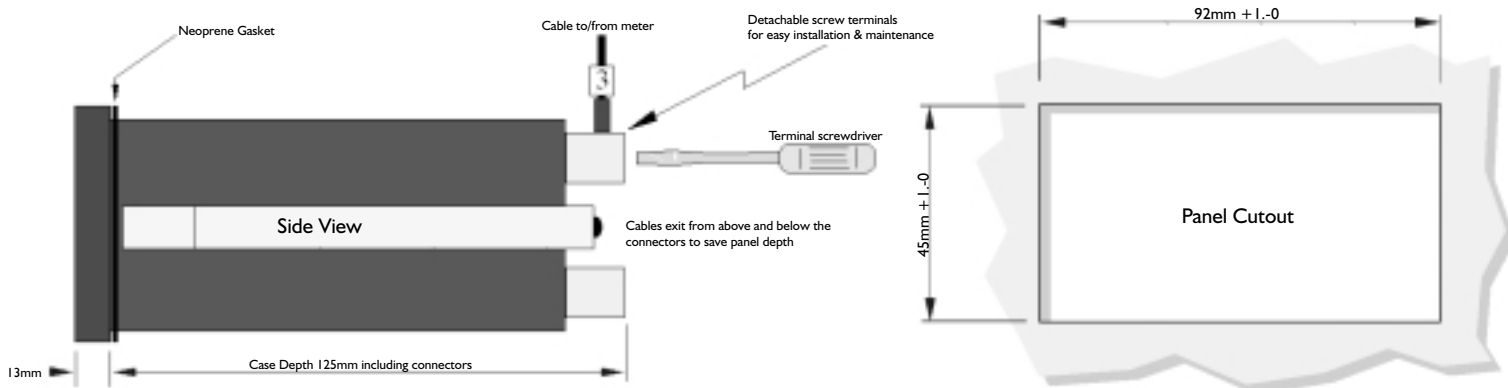
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# SPECIFICATION

CHARACTERISTICS	INTUITIVE-P	UNITS
Display:	5 digit, 7 segment LED, 14mm high (-19999 to +99999)	
Resolution:	1:63,000 max. (bipolar)	
Accuracy:	< ±0.05	% of range of mV input
Sensor Excitation:	24	volts dc
Maximum Excitation Current:	100	mA
Input Range:	0-10Vdc scale & 0-20mA scale	
Input Impedance:	Voltage input = > 10M, Current input = 33	ohms
Digital Filtering:	0 to 5 in 0.5 increments	seconds effective time constant
Display Count By:	1, 2, 5, 10, 20, 50 digits (selectable)	
Analogue Output (Optional):	±5VDC, 0-10VDC or 4-20mA	
Operating Temperature:	-10 to +50	°C
Thermal Drift:	Span = 50, Zero = 20	ppm/°C
Operating Voltage:	95-265VAC (11-30VDC optional)	
Peak & Valley Sample Rate:	100 (10 optional at reduced display resolution)	Milliseconds
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):	2 or 4 relays, rated 5A @ 250VAC	
Serial Data Output (Optional)	RS232, RS422, RS485, DeviceNet, Modbus, Ethernet, Profibus	

## 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			DeviceNet -DN				
Frequency -F			Modbus -MB				
Counter -C			Ethernet -EN				
Serial Display -S			Profibus -PDP				

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



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Continuous product development may result in minor changes to published specifications.