Digital Process Indicators	**IDL-INT-P**

Function: IDL-INT-P is a panel mounting digital process indicator with a high efficiency 5 digit red LED display. They are designed for use in instrumentation systems with mA current inputs and DC voltage inputs. The display can be preset, or adjusted by the user, to display engineering units. The indicators are 95 to 265 Volt AC or 11 to 30 VDC powered and provided with screw terminals for all connections. The displays can be scaled from -19999 to +99999 full-scale and the zero and span and decimal point are all programmed from the front panel. The IDL-INT-P has 0.56" digits. Optional Extras include: Analogue Retransmitting output, Alarm output and Serial Output.

Lee-Dickens Ltd

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SPECIFICATIONS

Please note that the following are typical standard ranges. We will manufacture instruments to cater for other ranges too, within certain limitations. Please contact our internal sales department for further clarification.

INPUTS:
DC Current
0 to 10mA into 33 ohms
0 to 20mA into 33 ohms
4 to 20mA into 33 ohms

DC Voltage
0 to 5 Volts into 1 Megohm
1 to 5 Volts into 1 Megohm
0 to 10 Volts into 1 Megohm

Filtering
Adjustable 0 to 5 seconds

User Linearisation
Up to 10 points

DISPLAYS:
Display
5 digit red LED
(Optional extra: Green)

Digit Size
14mm   0.56"

Full Scale Range
-19999 to +99999

Scaleable to required engineering unit range

Decimal Point
Programmed from front panel

SUPPLY:
Power Supply Voltage
95 to 265 Volt AC ±10%
50/60 Hz
or
11 to 30VDC

Power Required
8 Watts Max

Excitation
Isolated 24VDC up to 100mA

OUTPUTS (Optional Extras):
Retransmission:
4-20mA into 0 to 500 Ohms
0-10V into loads > 600 Ohms
-5 to +5V into loads > 600Ohms
Fully isolated from input and power
Fully scalable with digital precision
Forward and reverse action possible

Alarm Output:
2 x SPST Alarms
rated @ 5A 250VAC
4 x SPST Alarms
rated @ 5A 250VAC
Adjustable hysteresis
Energise or de-enenergise on trip and normally open or normally closed

Serial Data Output:
RS232 1200 baud output only
RS422 1200 baud output only
RS485 Addressable
DeviceNet Addressable
Modbus Addressable
Profibus DP Addressable

GENERAL:
Accuracy
+/- 0.05% of range

Linearity
± 2 digits

Samples Rate
2.0 samples per second

Operating Temperature Range
0 to +50°C

Storage Temperature Range
-10 to +70°C

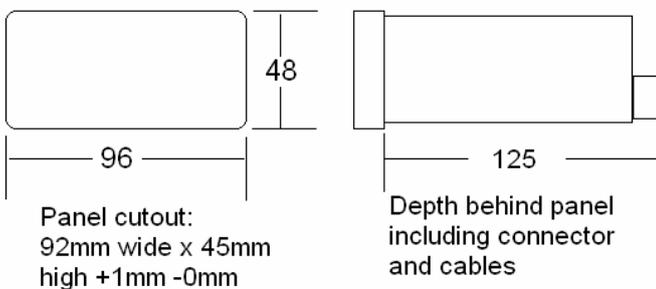**Operating/Storage Humidity Range**
0 to 95% RH non-condensing

Mounting
Panel mounting

Protection Level
IP54 standard
Fascia Panel to IP65 standard
IP67 with optional SPC4 Cover

Weight
300 gms

MECHANICAL DETAILS

48

96

Panel cutout:
92mm wide x 45mm high +1mm -0mm

125

Depth behind panel including connector and cables

TERMINATION DETAILS
Terminal
1   Input Excitation -ve
2   Input Signal -ve
3   Input Current mA +ve
4   Input Voltage VDC +ve
5   Unused
6   Input Excitation +ve
7   Remote Common
8   Remote Tare
9   Remote Peak/Valley
10 Remote Reset
11 Earth
12 Neutral or   -ve
13 Line   or +ve
       Mains or DC powered

Terminal
14 Analogue o/p -ve
15 Analogue o/p +ve
16 Serial Output } Depends
17 Serial Output } on
18 Serial Output } Data
19 Serial Output } Type
20 Alarm 1
21 Alarm 1
22 Alarm 2
23 Alarm 2
24 Alarm 3
25 Alarm 3
26 Alarm 4
27 Alarm 4

ORDERING DETAILS
a) Specify product type, i.e. IDL-INT-P
b) Give details of power supply, i.e. 240 Volt AC
c) Specify input type and range, i.e. 4 to 20mA

d) Specify display ranging required, i.e. 0 to 150.0
e) Specify if any optional extras required, i.e. Green LEDs, Analogue output, type and range, Relays and or Serial Data