

Digital Process Indicators

IDL-INT-T

Function: IDL-INT-T 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 thermocouple and PT100 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-T 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:

Thermocouples

Sensor Type	Accuracy	Maximum Resolution
J	±0.5°C	0.1°C
K	±0.6°C	0.1°C
T	±0.3°C	0.1°C
N	±1.0°C	0.1°C
R	±1.0°C	0.1°C
S	±1.0°C	0.1°C

RTD / RTB

Sensor Type	Accuracy	Maximum Resolution
PT100		
DIN	±0.2°C	0.1°C
ANSI	±0.2°C	0.1°C

PT100 Excitation

300 µA

User Linearisation

Linearisation fixed for each sensor type

INPUTS: contd

Logic Inputs

TARE, Peak/Valley and RESET

DISPLAYS:

Display
5 digit red LED
(Optional Extra: Green)

Digit Size
14mm 0.56"

Full Scale Range
-19999 to +99999

Scaling
Simply select °C or °F and 1° or 0.1° resolution.

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

OUTPUTS:

(Optional Extras)

Analogue Retransmitting
4 to 20mA into 10 to 500Ohms
0 to 10V into loads>600Ohms
-5 to +5V into loads>600Ohms
Fully isolated from input and power.
Fully scalable with digital precision.
Forward and reverse action possible

Alarm Output (SPST)
2 Alarms rated 5A 250VAC
4 Alarms rated 5A 250VAC
Adjustable hysteresis
Energise or de-energise on trip
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
Depends on sensor

Thermal Stability - Range
± 50ppm / °C

Thermal Stability – Offset
0.05°C/°C for T/C
±20ppm / °C for PT100

Operating Temperature Range
0 to +50°C

Storage Temperature Range
-10 to +70°C

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

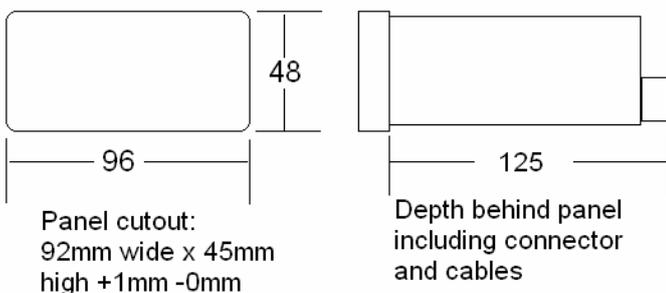
Mounting
Panel mounting

Panel Cut-out
92mm x 45mm, +1mm -0mm

Protection Level
Fascia Panel to IP65 std,
IP67 with optional SPC4 Cover

Weight
300 gms

MECHANICAL DETAILS



TERMINATION DETAILS

Terminal	Terminal
1 Input Excitation -ve	14 Analogue o/p -ve
2 Input Signal -ve	15 Analogue o/p +ve
3 Input Signal +ve	16 Serial Output } Depends
4 Input Excitation +ve	17 Serial Output } on
5 Unused	18 Serial Output } Data
6 Unused	19 Serial Output } Type
7 Remote Common -ve	20 Alarm 1
8 Remote Tare	21 Alarm 1
9 Remote Peak/Valley	22 Alarm 2
10 Remote Reset	23 Alarm 2
11 Earth	24 Alarm 3
12 Neutral or -ve	25 Alarm 3
13 Line or +ve	26 Alarm 4
Mains or DC powered	27 Alarm 4

ORDERING DETAILS

- Specify product type, i.e. IDL-INT-T
- Give details of power supply, i.e. 240 Volt AC
- Specify input type and range, i.e. T/C type K 0 to 750°C

- Specify display ranging required, i.e. 0 to 750.0°C
- Specify if any optional extras required, i.e. Green LEDs, Analogue output, type and range, Relays and / or Serial Data