

3½ Digit Digital Process Indicator – Non Processor Based IDL-PRO-J

Function: IDL-PRO-J is an economic, easy to use 1/8 DIN screwdriver scaleable (zero and span pots) panel mounting digital process indicator with high efficiency 3½ digit red LED displays. It is designed for use in instrumentation systems with mA Current or DC Voltage inputs. The indicators are either AC or DC powered and provided with screw terminals for all connections. The displays can be scaled from -1999 to +1999 full scale and the zero and span and decimal point are all selectable by means of potentiometers and links located behind the front panel. The IDL-PRO-J has a jumper selectable 24 Volt DC excitation supply or 10 Volt DC transducer supply as standard. Optional functions include a remote variable brightness control and a remote decimal point location function.



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SPECIFICATIONS

INPUTS:

Direct connection, 2 wire active or passive loops and 3 wire transmitter systems

Input signal type and range selected by means of push-on jumper links at rear of instrument

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
1 to 5 Volts
0 to 10 Volts

Input Impedance

1M Ohm

Filtering

Fixed 0.3 Seconds

DISPLAYS:

Display

3½ digit RED LED

Optional Extra:

3½ digit GREEN LED

Digit Size

14.2mm 0.56"

Full Scale Range

-1999 to +1999

Engineering Unit

Calibration
Potentiometer scaleable to required engineering unit range

Decimal Point

Decimal point may be located as required - factory set or position jumper switch.

Last Digit Round Up

Fixed count by 1
Option to add an extra fixed '0' digit.

SUPPLY:

Power Supply Voltage

Solder link selectable
240 Volt AC ±10% 50/60 Hz
110 Volt AC ±10% 50/60 Hz

Optional Power Supply

48 Volt AC
24 Volt AC
or
11 to 30 Volt DC

Power Required

4 Watts Max

Excitation Supply

Jumper selectable
24 Volt DC up to 30mA
or
10 Volt DC up to 50mA

GENERAL:

Accuracy

+/- 0.1% of range

Thermal Stability – Range & Offset

± 100ppm / °C

Samples Rate

2.5 samples per second

Operating / Storage

Temperature Range

0 to +50°C / -10 to +70°C

Operating / Storage

Humidity Range

0 to 95% RH non-condensing

Mounting

Panel mounting

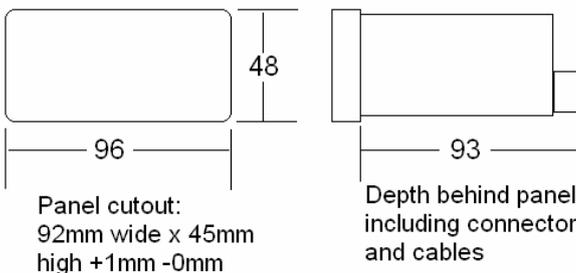
Protection Level

Fascia Panel to IP54 std,
IP67 with optional SPC4 Cover

Weight

300 gms

MECHANICAL DETAILS



TERMINATION DETAILS

Terminal

- | | | | |
|----|----------------------|---------|--------|
| 1 | Input Common -ve | | |
| 2 | Input Signal +ve | | |
| 3 | Input Excitation +ve | | |
| 4 | Optional functions | | |
| 5 | Optional functions | | |
| 6 | Optional functions | | |
| 7 | Optional functions | | |
| 8 | Power Supply | Earth | |
| 9 | Power Supply | Line | +ve DC |
| 10 | Power Supply | Neutral | -ve DC |

ORDERING DETAILS

- Give indicator type – IDL-PRO-J
- Display Colour, i.e. Red or Green
- Give details of power supply, i.e. 240 Volt AC

- Specify input type and range, i.e. 4 to 20mA
- Specify display ranging required, i.e. 0 to 150.0