

**ECO48IND Indicator** 1/8 din (48 x 96 mm)  
Processor based digital Process/ Temperature Indicator  
Featuring Large 0.56" High Brightness LED display



- ▶ ECO48IND Single Input Digital Indicator
- ▶ 48 x 96 mm Din Format ( 44 x 92 mm cut out)
- ▶ Bright 0.56 Inch Red LED Display
- ▶ Process & Temperature Inputs
- ▶ Microprocessor Based
- ▶ Precise Linearisation
- ▶ Sensor failure detection for Thermocouple inputs
- ▶ Simple to install and use
- ▶ 120 mm deep, behind panel
- ▶ High Accuracy
- ▶ Designed and made in Great Britain
- ▶ Available in two versions; Low cost fixed input type and fully programmable input / range version
- ▶ Two year parts and labour warranty

### ECO48IND High performance Temperature and Process indicators

The ECO48IND range are Microprocessor based single input Temperature / Process indicators with large high visibility display.

Available in two versions; either fixed sensor and range low cost, or fully configurable on site for different sensors / ranges.

Inputs available include a wide range of thermocouple and resistance thermometer types, plus 4-20 mA and Volts, for process signals.

Non linear inputs are accurately characterised using the microprocessor utilising Multi-breakpoint piecewise linearisation techniques.

**NEWTRONIC** digital indicators are covered by two years parts and labour warranty.

### GENERAL SPECIFICATION

<b>Displays</b>	Large 0.56" 4 digit High Efficiency Red 7 segment led display.		
<b>Facia</b>	Polyester, dustproof resistant to most liquids with red anti-glare filter.		
<b>Case</b>	Glass reinforced high impact plastic		
<b>Terminals</b>	Plug in rear terminal block, rising clamp technology		
<b>Dimensions</b>	Overall 96 x 96 x 120 mm (Behind panel). Cut-out 92 x 92 mm to Din 43700.		
<b>Weight</b>	180 grams approx.		
<b>Ranges</b>	Thermocouple to BS4937 (1981) Fully linearised.		
	T.C Type <b>K</b> NiCr / NiAl	Range <b>1</b>	-200 °C      1300 °C
	T.C Type <b>J</b> Fe / Con	Range <b>2</b>	-200 °C      800 °C
	T.C Type <b>R</b> Pt 13% Rh	Range <b>3</b>	0 °C      1700 °C
	T.C Type <b>S</b> Pt 13% Rh	Range <b>4</b>	0 °C      1700 °C
	T.C Type <b>N</b> Nicrosil / Nisil	Range <b>5</b>	- 200 °C      1300 °C
	T.C Type <b>T</b> Copper / Con	Range <b>6</b>	- 260 °C      400 °C
	T.C Type <b>K</b> NiCr / NiAl	Range <b>7</b>	0.0 °C      999.9 °C
	T.C Type <b>J</b> Fe/Con	Range <b>8</b>	-199.9 °C      800.0 °C
	T.C Type <b>T</b> Copper / Con	Range <b>9</b>	- 199.9 °C      400.0 °C
	T.C Type <b>B</b> Pt6% 30% Rh	Range <b>10</b>	40 °C      1800 °C
	Resistance thermometer (Pt100) to DIN 43760 (1980) and BS 1904 (1984).		
	<b>Pt 100</b> RTD	Range <b>16</b>	- 200 °C      800 °C
	<b>Pt 100</b> RTD	Range <b>17</b>	- 199.9 °C      800 0°C
	Process inputs Max / Min configurable floating decimal point		
	4 - 20 mA Linear		
	0 - 20 mA Linear	0	4000
	0 - 10 Volts Linear	0	4.000
	0 - 5 Volts Linear	0	40.00
	1 - 5 Volts Linear	0	400.0
	2 - 10 Volts Linear		
	For other ranges consult the factory.		
<b>Calibration</b>	Overall calibration at 24 Deg C (including linearity).		
	Thermocouple ranges	1 Deg C	+/- 1 digit
	Stability including cold junction compensation.		
	Better than 20 : 1 (i.e. max 1 Deg C calibration shift for 20 Deg. change in ambient).		
	Resistance thermometer and linear ranges.		
	0.1 Deg C resolution	0.1 Deg C	+/- 1 digit
	1 Deg C resolution	1 Deg C	+/- 1 digit
	Stability Better than	0.04 Deg C / Deg C	
<b>Serial Communications</b>	Optional RS 232, RS485 3 wire standard		
<b>Ambient</b>	0 - 50 Deg C		
<b>Supply</b>	Universal 85 / 264 Volts    50 / 60 Hz.		
<b>Power</b>	5VA Max.		
<b>Ordering Details</b>	Example :-		
	Model	Input	Range
	<b>ECO48IND</b> :	Pt100 (17)	0 – 800.0    STANDARD LOW COST
	<b>ECO48INDU</b> :	K (1)	200 – 1300    UNIVERSAL PROGRAMMABLE