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

Newtronic Controls International Limited
Rockfield House, 512 Darwen Road, Bromley Cross,
Bolton, BL7 9DX

Tel :+44 (0)1204 401105
Fax :+44 (0)1204 401105
Email newtronicontrols@aol.com
www newtronic-controls.co.uk

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

Displays Large 0.56" 4 digit High Efficiency Red 7 segment led display.
Facia Polyester, dustproof resistant to most liquids with red anti-glare filter.
Case Glass reinforced high impact plastic
Terminals Plug in rear terminal block, rising clamp technology
Dimensions Overall 96 x 96 x 120 mm (Behind panel).
Cut-out 92 x 92 mm to Din 43700.
Weight 180 grams approx.
Ranges Thermocouple to BS4937 (1981) Fully linearised.

T.C Type **K** NiCr / NiAl	Range **1**	-200 °C	1300 °C
T.C Type **J** Fe / Con	Range **2**	-200 °C	800 °C
T.C Type **R** Pt 13% Rh	Range **3**	0 °C	1700 °C
T.C Type **S** Pt 13% Rh	Range **4**	0 °C	1700 °C
T.C Type **N** Nicrosil / Nisil	Range **5**	- 200 °C	1300 °C
T.C Type **T** Copper / Con	Range **6**	- 260 °C	400 °C
T.C Type **K** NiCr / NiAl	Range **7**	0.0 °C	999.9 °C
T.C Type **J** Fe/Con	Range **8**	-199.9 °C	800.0 °C
T.C Type **T** Copper / Con	Range **9**	- 199.9 °C	400.0 °C
T.C Type **B** Pt6% 30% Rh	Range **10**	40 °C	1800 °C

Resistance thermometer (Pt100) to DIN 43760 (1980) and BS 1904 (1984).

Pt 100 RTD	Range **16**	- 200 °C	800 °C
Pt 100 RTD	Range **17**	- 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.

Calibration 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	

Serial Communications Optional RS 232, RS485 3 wire standard
Ambient 0 - 50 Deg C
Supply Universal 85 / 264 Volts 50 / 60 Hz.
Power 5VA Max.
Ordering Details Example :-

Model	Input	Range	
ECO48IND :	Pt100 (17)	0 – 800.0	STANDARD LOW COST
ECO48INDU :	K (1)	200 – 1300	UNIVERSAL PROGRAMMABLE

Newtronic Controls International Limited
Rockfield House, 512 Darwen Road, Bromley Cross,
Bolton, BL7 9DX

Tel :+44 (0)1204 401105
Fax :+44 (0)1204 401105
Email newtronicontrols@aol.com
www newtronic-controls.co.uk