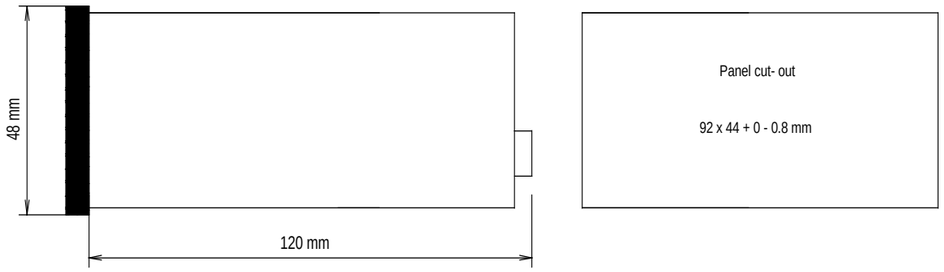
GENERAL SPECIFICATION

Displays	0.56” 4 digit High Efficiency Red 7 segment led display of process variable, 0.32” 4 digit High Efficiency Red 7 segment led display of setpoint and other variables Alarm 1 Status Red led. Alarm 2 Status Red led. Alarm 3 Status Red led.
Switches	Touch with Tactile Feedback**.**
Facia	Polyester, dustproof resistant to most liquids.
Case	Glass reinforced high impact plastic.
Terminals	Plug in rear terminal block, rising clamp technology.
Dimensions	Overall 48 x 96 x 120 mm behind panel depth Cut out 45 x 92 mm to DIN 43700.
Weight	180 grams approx.
Inputs (Fully configurable)	Thermocouple, type B, J, K, N, R, S, T, Resistance Thermometer (Pt100), 3 wire. Automatic lead compensation Linear Volts, 0 - 5V, 0 - 10V, Linear mA, 0-20 mA, 4-20 mA, (burden resistor of 3R3 mounted on rear terminals) Calibration overall 0.2% (For 10-50^{0}C ambient) Including automatic CJC for thermocouple inputs Sampling rate 25 readings per second.
Sensor Failure	Thermocouple Open circuit detection, heat output off (Fail safe), Resistance thermometer Short circuit and open circuit detection. 4 - 20 mA Out of range detection.
Alarms	Alarm 1 Main setpoint Alarm 2 may be set as an error alarm relative to Alarm 1 or as a true value Alarm 3 may be set as an error alarm relative to Alarm 1 or as a true value
Outputs	Channel 1 Relay (2A/240V), Channel 2 (Optional) Relay 2A/264V (changeover). Channel 3 (Optional) Relay 2A/264V.
Supply	85 - 264 Volts 50 / 60 Hz
Power	5VA Max.
Operating temperature	0 - 50^{0}C

DIMENSIONAL DETAILS



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

NEWTRONIC
ECO 4830HL ALARM
Temperature / Process Alarm unit

ECO 4830HL ALARM 1/8 din (48 x 96 mm)
Quality Temperature / Process alarm units featuring
Large 0.56” High Brightness LED process display

- 48 x 96 format Alarm units incorporating
- 0.56” Bright LED Display of process variable
- Continuous LED display of main alarm setpoint
- Universal input (fully configurable) T/C, RTD, mA, mV or V
- Microprocessor based / surface mount technology
- Available with 1, 2, or 3 Relay alarm outputs
- All alarms fully configurable
- Universal 85 - 264 Volts power supply
- 120 mm behind panel depth
- Designed and made in Great Britain
- 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

The ECO 4830HL ALARM is a quality Temperature / Process Alarm unit featuring universal inputs, with a choice of 1, 2, or 3 fully configurable alarms

Features of the new **ECO 4830HL ALARM** Alarm unit include :

The horizontal (**HL**) 48 x 96 format enables a large 0.56” 4 digit display to be incorporated for the display of measured value, together with a second display of main alarm setpoint.
Pushbuttons with positive tactile feel for ease of use.
State of the art 16 bit CISC MCU.
High resolution multi channel Analogue to Digital converter
Surface mount technology.
Universal input, thermocouple, RTD, linear DC.
Universal 85 / 264 Volt power supply.
It is designed and manufactured to provide features, performance, stability and long reliable life associated with modern microprocessor based instrumentation.
Optional cool with 2 Amp time proportional relay output may be specified.
One 2A/264V changeover relay output alarm is fitted as standard
Two more fully configurable alarms with 2 Amp relay outputs may be specified.

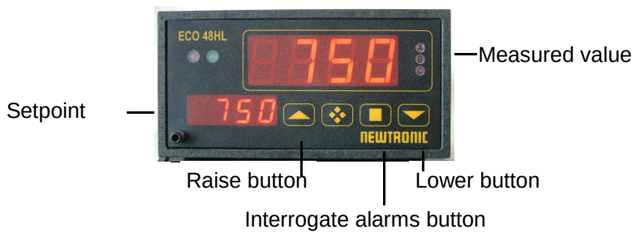
Very simple to operate

Once the alarms have been set the Alarm unit can be locked, so that the operator can only view the alarm settings.

Though the **ECO 4839HL ALARM** is mainly used for temperature inputs it may also be easily configured for process applications such as pressure control, flow control etc.

The 48 x 96 format makes the instrument an ideal replacement for digital indicators should alarm functions be required.

Clear, easy to use operator interface



Fully configured

All units are supplied fully tested and configured to your requirements they are ready to install and work.
They may be reconfigured to a different thermocouple and temperature range in the manufacturers link mode.

Warranty

All ECO 4830HL ALARM units are covered by 2 years parts and labour warranty.

Applications

The 1/8 DIN horizontal (**HL**) format make the ECO 4830HL ALARM unit ideal for applications throughout industry and research needing a large, bright, easy to read display together with alarm functions should the process variable deviate from a safe value.

Flexible Alarm options

Channel 1 ALARM (A1)	May be set as ERROR HIGH or ERROR LOW relative to the main setpoint, or as a TRUE HIGH or TRUE LOW not affected by the main setpoint.
Channel 2 ALARM (A2)	May be set as ERROR HIGH or ERROR LOW relative to the main setpoint, or as a TRUE HIGH or TRUE LOW not affected by the main setpoint.
Channel 3 ALARM (A3)	May be set as ERROR HIGH or ERROR LOW relative to the main setpoint, or as a TRUE HIGH or TRUE LOW not affected by the main setpoint.

ORDERING INFORMATION

ECO 4830HLALARM	Sensor type	Minimum Range	Maximum Range	Channel 1 Output	Channel 2 Output	Channel 3 Output
T.C Type **K** NiCr / NiAl	Range **1**	- 200 °C	1300 °C	A1 Alarm relay	A2 Alarm relay	A3 Alarm relay
T.C Type **J** Fe / Con	Range **2**	- 200 °C	800 °C		0 No channel 2	0 No channel 3
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 °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			
Pt 100 RTD	Range **16**	- 200 °C	800 °C			
Pt 100 RTD	Range **17**	- 199.9 °C	800 0°C			
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						

ORDER CODE EXAMPLES

ECO 4830HLALARM	K Range 1	0	400	A1	0	0
ECO 4830HLALARM	R Range 3	0	1400	A1	A2	0
ECO 4830HLALARM	4 - 20 mA	0.0	232.0	A1	A2	A3

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