



YPL LEVEL & INSTRUMENTS

INDICATOR: YPL-IND57

Programmable Process Indicator



DESCRIPTION

LTRON-48E series Indicators and On-Off Controllers are OEM series ECO range microprocessor based panel mounted indicators and on-off controller with optional input retransmission option. Though cost-effective, these are full-featured in terms of universal inputs, programming and calibration from keyboard, and useful option of isolated input retransmission output. All functions (operation, inputs/ranges configuration and calibration) are done from keyboard.

LTRON-48E series instruments accept Pt-100 RTD, thermocouples, 0/4-20 mA (linear/square-root) inputs and is useful for all general purpose measurement, on-off control and alarm functions for all process variables such as temperature, pressure, flow, level, etc.

The instruments' compact and highly functional fascia consists of a 4 digit 7-segment LED display and 4-key membrane keyboard for programming/parameter selection purposes.

The instruments are innovative with compact depth (behind panel) only 75 mm, moulded ABS enclosures, integral Terminals and 3 sizes (1/4 and 1/8 DIN).

- 4-20mA isolated re-transmission signal is optional for recording/ remote signal transmission applications.
- 2Nos NO/NC Relays are optional



APPLICATIONS

- Heating controls in ovens, furnaces, dryer etc.
- Cooling controls in AC&R, refrigeration
- Process indication and alarm functions for level, pressure, flow, pH etc. used in conjunction with respective transmitters.

PROGRAMMABLE INPUTS & RANGES

Input Ranges (default) Resolution	Input Ranges (default) Resolution	Input Ranges (default) Resolution
0/4-20 mA DC (linear/square root)	-1999 to +9999	Decimals programmable till 3 digits
0/1-5 V DC (linear/square root)	-1999 to +9999	Decimals programmable till 3 digits
Pt-100 RTD (3 wire)	-200 to +600 °C	0.1 °C
Fe-Const. Thermocouples (ANSI J)	0 to 600 °C	1 °C
Cu-Const. Thermocouples (ANSI T)	0 to 400 °C	1 °C
Cr-Al Thermocouples (ANSI K)	0 to 1200 °C	1 °C
Pt-PtRh13% Thermocouples (ANSI R)	0 to 1600 °C	1 °C
Pt-PtRh10% Thermocouples (ANSI S)	0 to 1600 °C	1 °C

SPECIFICATIONS TABLE

Model Fascia			
SPECIFICATIONS	LTRON 96E	LTRON 48E	LTRON 72E
Dimensions W x H x D mm	96 x 96 x 85	96 x 48 x 85	72 x 72 x 85
Cutout (W x H) mm	92 x 92	92 x 46	68 x 68
Inputs (refer table)	Programmable	Programmable	Programmable
Display 7-segment LEDs	4-digits, red, 14.3 mm	4-digits, red, 14.3 mm	4-digits, red, 14.3 mm
Set points (programmable)	2 , independent Hi/Low	2 , independent Hi/Low	2 , independent Hi/Low
Relay outputs	C/O contacts P-NO-NC	C/O contacts P-NO-NC	C/O contacts P-NO-NC
Relay Ratings	7A, 240VAC resistive loads	7A, 240VAC resistive loads	7A, 240VAC resistive loads
Relay Hysteresis	Settable +/- 25 digits	Settable +/- 25 digits	Settable +/- 25 digits
Range (limited by sensor)	-1999 to 9999	-1999 to 9999	-1999 to 9999
Resolution RTD/TC inputs	1 digit TC, 0.1 digit RTD	1 digit TC, 0.1 digit RTD	1 digit TC, 0.1 digit RTD
Resolution (DC inputs)	Programmable at any place	Programmable at any place	Programmable at any place
Transmitter Power supply	24VDC, 30mA	24VDC, 30mA	24VDC, 30mA
Isolated 4-20mA PV Retransmission	Optional	Optional	Standard
Accuracy DC inputs	0.1% FS +/- 1 digit	0.1% FS +/- 1 digit	0.1% FS +/- 1 digit
Accuracy RTD, T/C	0.1% FS typical, 0.25% FS	0.1% FS typical, 0.25% FS	0.1% FS typical, 0.25% FS
Power supply (MAINS)	100-264VAC, 50Hz	100-264VAC, 50Hz	100-264VAC, 50Hz
Ambient conditions	55°C , 90% RH N.C.	55°C , 90% RH N.C.	55°C , 90% RH N.C.
Terminals	Screwed 1.5mm ²	Screwed 1.5mm ²	Screwed 1.5mm ²
Enclosure (IP40)	Moulded ABS 1/4 DIN bezel	Moulded ABS 1/8 DIN bezel	Moulded ABS 3/16 DIN bezel

MODEL DE-CODIFICATION

MODEL	RELAY (2Nos)	RETRANSMISSION
LTRON-48E	0 – none, 1 – required	0 – none, 1 – required
LTRON-72E	0 – none, 1 – required	0 – none, 1 – required
LTRON-96E	0 – none, 1 – required	0 – none, 1 – required

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