

PROCESS INDICATOR - UNIVERSAL INPUT

FEATURES

- 4 digit process display (High brightness LED)
- Universal process input (TC, RTD, mV DC, V DC, mA DC)
- Two relay outputs
- Dual or multi point calibration for DC voltage & DC current inputs
- Smart output module system
- Programmable Alarm functions
- Process control or re-transmission with 0/4...20 mA Current output
- RS-485 serial communication with Modbus RTU protocol



NOTE

REV A. As of March, 2022: The mL-PI8 Revision A has been upgraded to include the following options as standard features:

- Two Relays (Additional 3A Relay now STD)
- Gasket for NEMA4X Installation
- High Bright LED Display

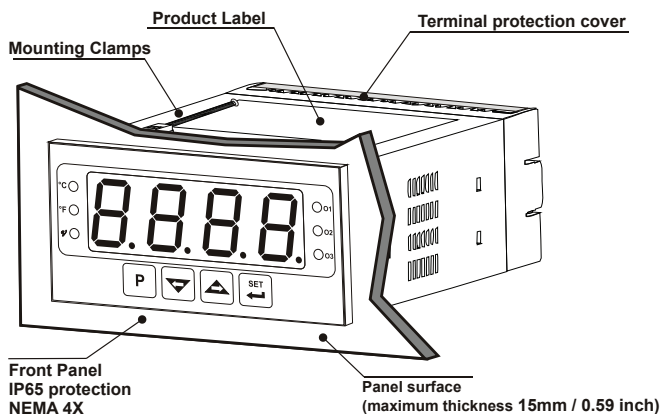
DESCRIPTION

The mL-PI8 process indicators are designed for measuring temperature and any process value. They can be used in many applications with their universal process input, alarm functions and serial communication unit.

Application Fields

Glass
Food
Plastic
Petrol-Chemistry
Textile,
Machine Production Industries Etc.

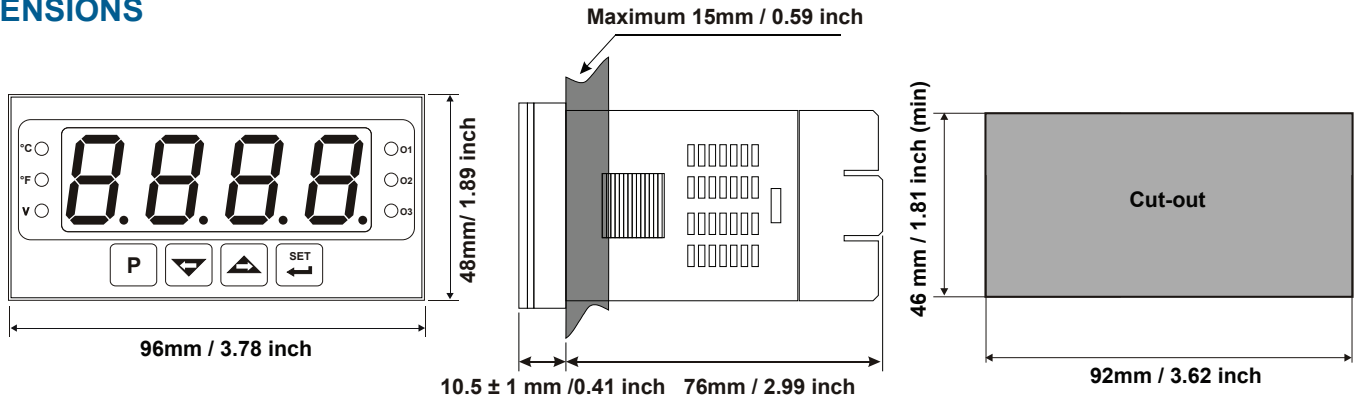
GENERAL DESCRIPTION



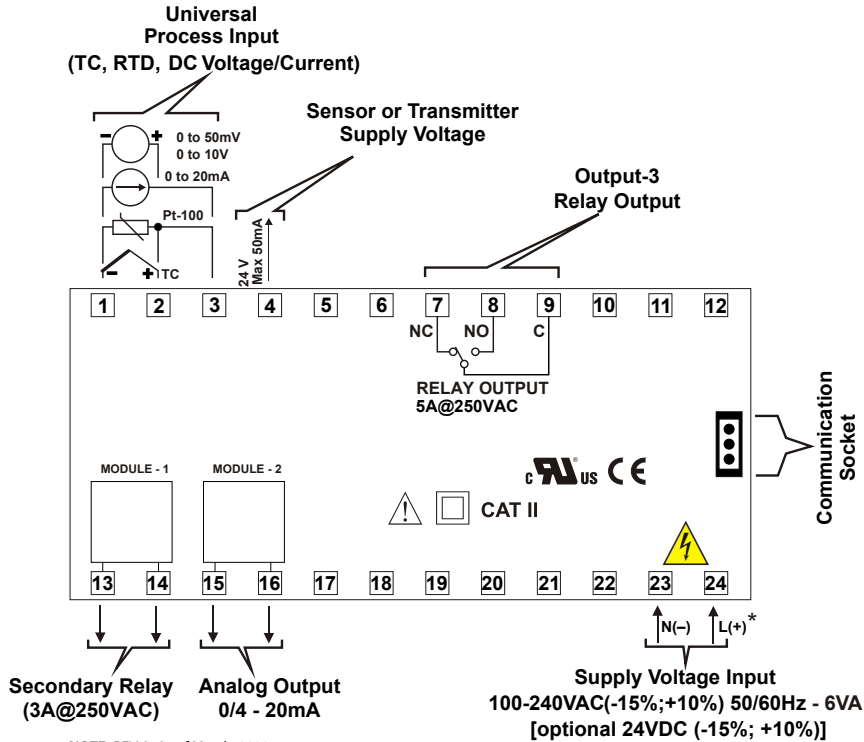
SPECIFICATIONS

Buttons	Program Arrow (change), Set/Enter buttons
LED Indicators	O1/O2/O3 output LEDs °C / °F / V units LEDs.
Display	20.3 mm Red 4 digits LED display
Physical Features	96 mm x 48 mm 86,5 mm
Protection Class	NEMA 4X (IP65 at front, IP20 at rear)
Weight	Approximately 0.21 Kg.
Installation	Fixed Installation
Supply Voltage and Power	100-240 VAC (-15%,+10%) 50/60 Hz. 6 VA 24VDC (-15%,+10%) Supply Voltage (optional)
Process Inputs	Universal Input TC, RTD, Voltage/Current (dc)
Thermocouple Input Types	Selectable by configuration parameters L (DIN43710), J, K, R, T, S, B, E, N (IEC584.1) (ITS90)
RTD Input Types	PT100 (IEC751) (ITS90)
Voltage Input Types (DC)	Selectable by configuration parameters 0-50 mV, 0-5 V, 0-10 V
Current Input Types (DC)	Selectable by configuration parameters 0-20 mA, 4-20 mA
Excitation Voltage	24VDC 50mA max. (AC powered only)
Accuracy	± 0.25% of full scale for Thermocouple, Thermoresistance, and Voltage.
Reading Frequency	3 readings per second
Relay Outputs (2)	1 - 5A Relay (Form C) 1 - 3A Relay (Form A)
Control Form	On / Off
Analog Output	0/4-20mA Current Output (sourcing)
Serial Communication	RS-485 with Modbus RTU (cable purchased separately)
Communication Protocol	MODBUS-RTU
Approvals	UL Recognized Component (File No : E 254103), GOST-R, CE

DIMENSIONS



WIRING



* External Fuse is recommended (1A T)

ORDERING INFORMATION

Model Number	Description
mL-PI8 (Rev-A)	Process Indicator 1/8 DIN Case Universal Input. Selectable: TC, RTD, mV, VDC, or mA 100 to 240VAC (-15%; +10%) 50/60Hz 2 Relay Outputs 1- (5A @ 250VAC with Resistive Load) (Form C) 1- (3A @ 250VAC with Resistive Load) (Form A) RS-485 Serial Communication with Modbus RTU Protocol Analog Output 0/4 - 20mA Gasket to provide NEMA4X seal
Options (add to end of model number)	
24VDC	24VDC (-15%; +10%) Power Input
Accessories	
mL-cable-485	RS485 Serial Cable