FEATURES

- ❑ Rugged industrial design
- ❑ Universal input
- ❑ Optional programmable alarm outputs
- ❑ Keyboard calibration

The MPI601 is an advanced Microcontroller based single channel Process Indicator used for monitoring analog and digital signals in the majority of industrial processes. The process indicator can accept analog inputs (from RTDs, Thermocouples, current and voltage inputs) or digital pulses. Optional single or dual alarm output is provided wherein the alarm type and value is programmable from the front keyboard. The indicator is calibrated for all the basic inputs and the calibration is not required to be changed if the input type is changed. However if recalibration is required due to any error then calibration can be done through keyboard.
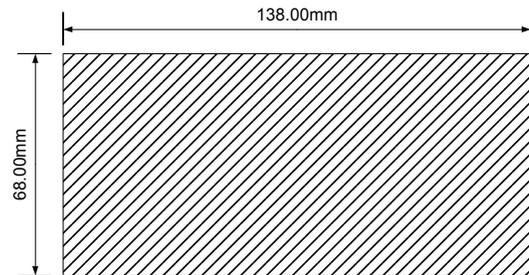
SPECIFICATIONS:

No. of channels	1
Inputs	Universal inputs (Refer Input table)
Input Connection	Rugged Screw type terminal, suitable for wire size ranging from 0.2-2.5sq.mm
Input Impedance	For Thermocouples & mV inputs: >1 MΩ DC Volts: >100 KΩ
Display	1 "Red 4 digit 7seg. LED Display Range –1999 to 9999
Square root extraction	Provided built-in for linear inputs
Automatic Compensations	-Cold junction compensation for thermocouples -Wire resistance compensation for three wire RTDs.
Accuracy	+/- 0.1% of FS, +/- 1 digit for Linear inputs +/- 0.2% of FS, +/- 1 digit for others
Decimal Point	Programmable as 8888, 888.8, 88.88, 8.888 for Linear Inputs
Noise Rejection	-Common Mode 120dB or better -Series Mode 60dB or better
OUTPUT OPTIONS: 1. Alarm Output 2. Retransmission Output 3. Transmitter Excitation Voltage	1. Up to 2 alarms, 1 CO, 5A / 230 V AC resistive max. 2. Isolated 4 – 20mA Programmable 3. 24V DC/30mA max.
Battery Backup	EEPROM Nonvolatile Memory (Battery not required)
Power Supply	Universal 95 – 265V AC, 50Hz or 110 – 300 V DC
Open Sensor Indication	'OPEN' or 'OR' where applicable.

contd. specifications:

PROTECTION	
Sensor Burn out Protection	Programmable alarm ON or OFF
Set Point & Configuration Protection	Password Protected – User & configuration menu
System Protection	Through hardware and software watch dog
ENVIRONMENT	
Operating Temperature	0 to +55 Deg. C
Operating Humidity	Up to 95% non condensing
Storage Temperature	-10 to +70 Deg. C
ENCLOSURE	
Enclosure	MS Powder Coated with plastic front bezel
Mounting Type:	Flush on panel
Accessories:	Screw type mounting clamp
External Dimension:	72 (H) x 144 (W) x 162 (D) mm
Panel Cutout:	68 (H) x 138 (W) mm, Depth behind panel: 150mm

INPUT TABLE:

INPUT TYPE		
Linear	mA DC **(Use 250Ω)**	4 – 20 mA / 0– 20 mA
	V DC	1 – 5 V / 0 – 5 V / 0 – 10V
		0– 75 mV
RTD PT100		PT100 1 Deg.C resolution
		PT100 0.1 Deg.C resolution
TC		J
		K
		T
		E
		B
		R
		S

138.00mm

68.00mm

PANEL CUTOUT

ORDERING CODE:

MPI601 - ☐ - ☐ - ☐ - ☐ - ☐ - ☐

Function
FI = Indicator

Type of Input
TL = Linear Input (mA / V)
TU = Universal Input

Output-1
1M0 = None
1MR = Relay

Output-2
2M0 = None
2MR = Relay

Output-3
3M0 = None
3MA = with one 4-20mA retransmission
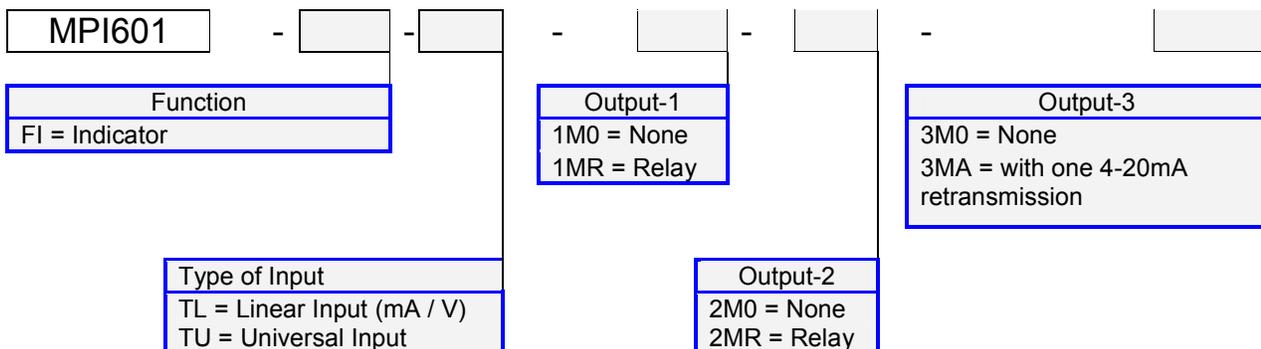
SAMPLE CODE ORDER:
MPI601 – FI – TL –1MR – 2M0 – 3MA
Indicator, Linearl Input, with 1 Relays, with one 4-20mA retransmission