

FEATURES

- q Compact size
- q Rugged industrial design
- q Universal or fixed input
- q Optional programmable alarm outputs
- q Keyboard calibration
- q 95 – 265V AC universal power supply
- q Engineering unit labels insertion



The MPI-501U 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:

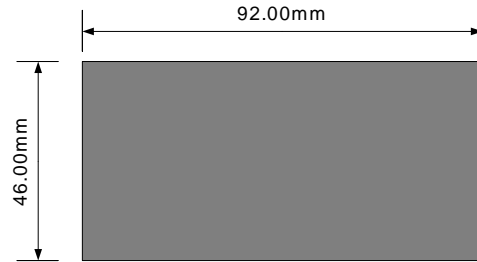
No. of channels	1
Inputs	Universal or Fixed inputs (Refer Table)
Input Connection	Rugged Screw type terminal, suitable for wire size ranging from 0.2-2.5sq.mm
Input Impedance	For Thermocouples & mV inputs: >1 MΩ DC Volts: >100 KΩ
Display	- 4 digit 7seg. Red LED -Range –1999 to 9999
Square root extraction	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.
PROTECTION Sensor Burn out Protection Set Point & Configuration Protection System Protection	Programmable alarm ON or OFF Password Protected – User & configuration menu Through hardware and software watch dog

contd. specifications:

ENVIRONMENT Operating Temperature Operating Humidity Storage Temperature	0 to +55 Deg. C Up to 95% non condensing -10 to +70 Deg. C
ENCLOSURE Enclosure IP Rating Mounting Type: Accessories: External Dimension: Panel Cutout: Weight:	Flame Retardant ABS IP54 (Front panel) Flush on panel Screw type mounting clamp 48(H) x96 (W) x134 (D) mm 46(H) x92 (W) mm, Depth behind panel: 124mm 0.25 Kg. approx.

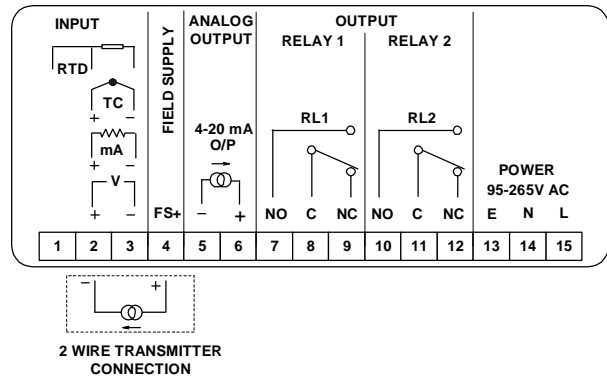
INPUT TABLE:

INPUT TYPE		CODE - XX
mA DC (Use 250Ω)	4 – 20 mA	00
	0– 20 mA	01
	Others	0X
V DC	1 – 5 V	10
	0 – 5 V	11
	Others	1X
mV DC	15– 75 mV	20
	0– 75 mV	21
	Others	2X
PT100	PT100 1 Deg.C resolution	30
	PT100 0.1 Deg.C resolution	31
TC	J	40
	K	41
	T	42
	E	43
	B	44
	R	45
	S	46
PULSE	Pulse	50
UNIVERSAL	Universal	U0
TAP	Tap Position	T0
VALVE	Valve Position	V0



PANEL CUTOUT

BACK TERMINAL CONNECTION:



SAMPLE ORDER CODE

925 – 001 – 1W

4 – 20 mA DC, Single Alarm Relay, With Field Supply

NOTE:

- 1) Consult factory for 'Others'
- 2) For valve position indicator input potentiometer should be 1Kohm minimum

ORDERING CODE:

