

# PIC1000

ADVANCED PROCESS INDICATOR



1/8 DIN  
48mm x 96mm

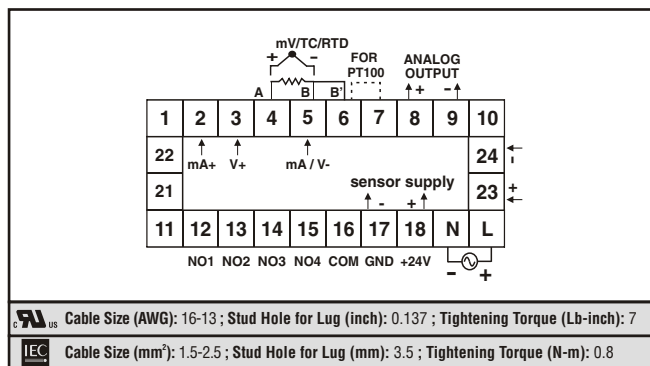
## FEATURES

- 4 Digit 7 Segment LED
- LED Status Indicator: Alarm ON
- TC / RTD / Analog Inputs
- °C / °F Selectable
- 4 Alarm Outputs
- Sensor Supply
- Retransmission Output (Optional)
- RS485 Communication (Optional)
- Maximum Programs: 25

## ORDERING INFORMATION

Part no.	Supply Voltage		Retransmission Output	RS485 Communication	4 Alarm Outputs
	85 - 270V AC/DC	24V DC			
PIC1000N-D-1	■		■ 0-20mA		■
PIC1000N-D-2	■		■ 4-20mA		■
PIC1000N-D-3	■		■ 0-5V		■
PIC1000N-D-4	■		■ 0-10V		■
PIC1000N-E	■			■	■
PIC1000N-E-1	■		■ 0-20mA	■	■
PIC1000N-E-2	■		■ 4-20mA	■	■
PIC1000N-E-3	■		■ 0-5V	■	■
PIC1000N-E-4	■		■ 0-10V	■	■
PIC1000N-A	■				■
PIC1000N-D-1-24		■	■ 0-20mA		■
PIC1000N-D-2-24		■	■ 4-20mA		■
PIC1000N-D-3-24		■	■ 0-5V		■
PIC1000N-D-4-24		■	■ 0-10V		■
PIC1000N-E-24		■		■	■
PIC1000N-E-1-24		■	■ 0-20mA	■	■
PIC1000N-E-2-24		■	■ 4-20mA	■	■
PIC1000N-E-3-24		■	■ 0-5V	■	■
PIC1000N-E-4-24		■	■ 0-10V	■	■
PIC1000N-A-24		■			■

## TERMINAL CONNECTIONS



## TECHNICAL SPECIFICATIONS

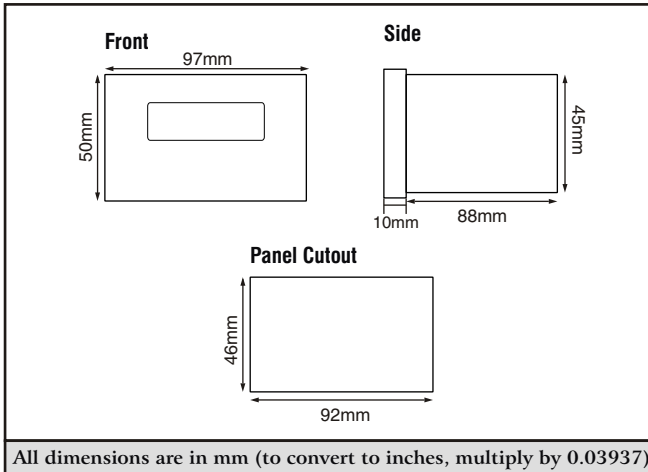
### INPUT SPECIFICATIONS

Inputs	Thermocouple (J,K,T,R,S,C,E,B,N,L,U,W, Platinel II), RTD (Pt100, pt1000) DC Analog Inputs (-5 to 56mV, 0 to 100mV, 0 to 10V, 0/4 to 20mA)
Resolution	1 / 0.1° for TC/RTD 1/0.1/0.01/0.001 for analog input
Temperature Unit	°C / °F selectable

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## ADVANCED PROCESS INDICATOR

### DIMENSIONS



### OPTIONAL SPECIFICATIONS<sup>#</sup>

#### SERIAL COMMUNICATION

Interface standard	RS485
Communication address	1 to 99, maximum of 32 units per line
Transmission mode	Half duplex
Transmission protocol	MODBUS RTU
Transmission distance	500 m maximum
Transmission speed	9600, 4800, 2400, 1200, 600, 300 bits/sec

<sup>#</sup>Optional specifications depend on the type of unit ordered.

### TECHNICAL SPECIFICATIONS

#### INPUT SPECIFICATIONS

Accuracy	For TC inputs: 0.25% of F.S. $\pm 1^\circ$ For R & S inputs: 0.5% of F.S. $\pm 2^\circ$ (20 min of warm up time for TC inputs) For RTD inputs: 0.1% of F.S. $\pm 1^\circ$ For Analog inputs: $\pm 0.5\%$ of F.S., $\pm 1$ digit (F.S. = Full Scale)
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#### FUNCTIONAL SPECIFICATIONS

Alarms	4
Alarm Modes	High alarm, Low alarm, Band, Fail output and Fault diagnosis
Hysteresis	0.1 to 99.9 $^\circ$
Annunciator	Programmable
User Linearization	2 point scaling
Reset Action	Automatic or Latched

#### OUTPUT SPECIFICATIONS

Alarm	
Contact Rating (SPST)	5A @ 250V AC or 24V DC, resistive
Retransmission (Optional)	0/4 to 20 mA DC, 0 to 5V DC, 0 to 10V DC
Sensor Supply	24V DC, 30 mA
Communication	RS485 (MODBUS)

#### GENERAL SPECIFICATIONS

Supply Voltage	85 to 270V AC/DC (50 / 60Hz) OPTIONAL - 24V DC, $\pm 10\%$
Power Consumption	6VA max @230V AC
Temperature	Operating: 0 to 50 $^\circ$ C (32 to 122 $^\circ$ F) Storage: -20 to 75 $^\circ$ C (-4 to 167 $^\circ$ F)
Humidity (non-condensing)	95% RH
Weight	260 g (0.573 lbs)
Protection Level	IP65 for faceplate