



FEATURES

- Universal input- Accepts Sensor Inputs (Thermocouple or RTD), Current, Voltage, & mV.
- High Indication Accuracy: $\pm 0.25\%$.
- Sensor Error Compensation (offset) and Break Detection.
- 4 Alarm outputs.
- Status Indicators for outputs.
- Programmable Delay time for alarm.
- 25 Program settings for each alarm.
- RS-485 Serial Communication (MODBUS).
- 24 VDC Sensor Supply.
- Parameter Security via Programmable Lockouts.
- 85 to 270 VAC/DC supply voltage (also available 24 VDC models).
- Compliance: CE, RoHS

SPECIFICATIONS

- DISPLAY:** 4-digit (7 segment LED) 0.5" high.
Display Messages:
 "Or" - Appears when measurement exceeds range or open sensor is detected.
 "rE" - TC reverse.
 Display alternating between:
 PV & HA-AL No. for high alarm.
 PV & LA-AL No. for low alarm.
LED Status Annunciators: Alarm ON (4nos).
- POWER:**
 85 to 270 VAC / DC , 50 or 60Hz, 5VA.
Optional: 24VDC (Consult Factory).
- SETTINGS:** Via three keys on front panel.
- MEMORY:** Nonvolatile EEPROM retains all programmable parameters and values.
- 5. MAIN SENSOR INPUT: (Universal)**
 Temperature units : °C/°F.
 Resolution : Temperature: 1 / 0.1
 Signal input: 0.001, 0.01, 0.1 & 1 decimal point selectable.

Thermocouple inputs

- | | |
|--------------------------|--------------------|
| J : -200 to 750°C | K : -200 to 1350°C |
| T : -200 to 400°C | R : 0 to 1750°C |
| S : 0 to 1750°C | C : 0 to 2300°C |
| E : -200 to 750°C | B : +150 to 1820°C |
| N : -200 to 1300°C | L : -200 to 600°C |
| U : -200 to 900°C | W : 0 to 2300°C |
| Platinel II: 0 to 1390°C | |

RTD inputs (2 wire or 3 wire)

PT100 : -100 to 850°C. PT1000: -200 to 300°C.

Signal inputs

- Voltage : 0 to 10 VDC
 mV (linear) : -5 mV to 56mV, 0 to 100 mV.
 Current : 0 to 20 mA

6. INDICATION ACCURACY:

0.25% of Span $\pm 1^\circ\text{C}$ (After 20min. Warmup).

7. CONTROL AND ALARM OUTPUTS:

Relay output : 5A @ 250VAC or 24VDC.

8. OUTPUT : 4 nos.

Alarm modes : Alarm High, Alarm Low, Band, Fail output and fault diagnosis.

Hysteresis : Programmable.

Annunciator : Programmable.

Reset Action: Programmable automatic or latched.

Standby Mode: Programmable enable or disable.

9. SENSOR SUPPLY : 24 VDC to power the sensors.

10. LINEAR DC OUTPUT: (optional)

Re-transmission : 4 to 20 mA or 0 to 5 V or 0 to 10 V.

Update rate: 100msec.

11. SERIAL COMMUNICATIONS: (optional)

Interface standard : RS485

Communication Address: 1 to 99, max of 32 units per line

Protocol : MODBUS

12. ENVIRONMENTAL CONDITIONS:

Operating : 0 to 50°C,

Storage : -5 to 50°C.

Humidity : 85% RH.

13. ISOLATION BREAKDOWN RATINGS:

AC line with respect to all inputs and outputs: 2000 Volts.

All other inputs and outputs with respect to relay contacts: 2000 VAC.

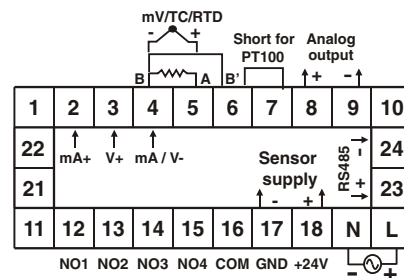
14. WEIGHT : 300 grams .

PRODUCT CODE

MODELS	RETRANSMISSION OUTPUT	COMMUNICATION
PIC1000-A	X	X
PIC1000-D-1	0-20mA	X
PIC1000-D-2	4-20mA	
PIC1000-D-3	0-5V	
PIC1000-D-4	0-10V	
PIC1000-E-1	0-20mA	✓
PIC1000-E-2	4-20mA	
PIC1000-E-3	0-5V	
PIC1000-E-4	0-10V	

NOTE : For 24VDC models add suffix '- 24'

TERMINAL CONNECTIONS



DIMENSIONS (in mm)

