Process Indicator

PIC153P



48 x 96mm

Features :

- 5 Digits, 7 Segment LED single display
- Selectable dual color as per user(White / Red)
- Universal input
- 2 x Alarm output
- 24V DC sensor supply
- User can easily switch output from 'Manual' to 'Auto'
- Retransmission output
- RS485 Modbus RTU protocol

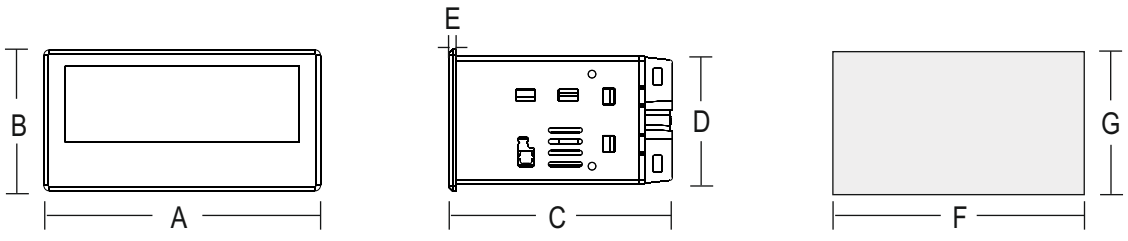
Certifications : CE, IP65

Technical specifications

Display specifications	
Display	5 Digits 7 Segment LED single display
LED indication	AL1 & AL2 : Alarm output MAN : Indication for manual output & standby mode ACK : Latch alarm acknowledgment request ERR : Indication for error
Input specifications	
Inputs	Thermocouple : J, K, T, R, S, C, E, B, N, L, U, W, Platinel II RTD : PT100,PT1000 Signal Inputs : -90 to 90mV, -10 to 10V DC, -20 to 20mA DC (Programmable scale type)
Resolution	For TC / RTD : 1 / 0.1° For Analog Input : 1 / 0.1 / 0.01 / 0.001 / 0.0001(only for high resolution output)
Indication accuracy	TC Input : 0.1% of span at 25°C R & S Input : 0.25% of span at 25°C RTD Input : 0.1% at 25°C Voltage : 0.1% at 25°C Current : 0.1% at 25°C
Sampling time	40 msec
Digital filtering	Off, 1 to 99 sec
Output specifications	
Alarm	
Relay contact (SPDT)	RLY1, 2: NO: 10A 250 VAC/ 28 VDC NO/ NC: 5A/ 5A 250 VAC/ 28 VDC
Retransmission resolution	1mV for AOV & 1μA for AOI
Retransmission	0 / 4 to 20 mA DC, 0 to 5V DC, 0 to 10V DC
Sensor supply	24V DC, 100mA
Functional specifications	
Alarm	2
Alarm modes	High Alarm, Low Alarm, Band Alarm, Serr
Hysteresis	Programmable
Annunciator	Programmable
Reset action	Automatic or Latched
Auxiliary supply specifications	
Supply voltage	85 to 270V AC / DC
Power consumption	8VA max
Environment specifications	
Temperature	Operating : 0°C to 55°C, Storage : -20°C to 75°C
Storage humidity	85% max. RH(non condensing) from 0 to 50°C
Mechanical specifications	
Mounting	Panel
Weight	232 gms

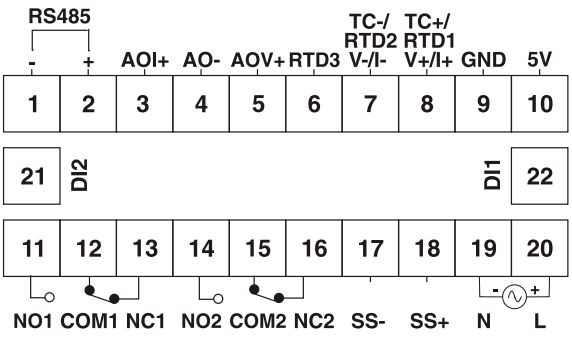
Optional specifications	
Serial communication	
Interface standard	RS485
Communication address	1 to 99, maximum of 32 units per line
Transmission mode	Half duplex
Transmission protocol	MODBUS RTU
Transmission distance	500m maximum
Transmission speed	115200, 57600, 38400, 19200, 9600, 4800, 2400 bits / sec
Parity	None, Odd, Even
Stop bits	1 or 2
Response time	100 ms (Max and independent of baud rate)

Dimensions (All are in mm)



MODEL / DIM	A	B	C	D	E	F	G
PIC153P	98	50	76	44.80	2.6	92	46

Terminal connections



Compliance

Applicable EMI / EMC Standards

Product Standard : IEC 61326-1

Category		Standards Compliance
ESD Immunity	IEC 61000-4-2	Level III
Surge Immunity	IEC 61000-4-5	+/- 2 kV common mode, +/- 1 kV differential mode
Radiated Susceptibility	IEC 61000-4-3	Level III, 80 to 1000MHz Level II, 1.4GHz to 2GHz Level I, 2GHz to 2.7GHz
Conducted Susceptibility	IEC 61000-4-6	Level II
Voltage Dips and Interruptions	IEC 61000-4-11	**Dips** : 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 10 cycles 50Hz / 12 cycles 60Hz (Criteria C)70% residual voltage / 25 cycles50Hz / 30 cycles 60Hz (Criteria C) **Interruptions** : 0% residual voltage / 250 cycles 50Hz / 300 cycles 60Hz (Criteria C)
Conducted Emission	CISPR-11	
Radiated Emission	CISPR-11	
Electrical Fast Transient	IEC 61000-4-4	Level III

Ordering information

Product code	Input	Alarm output		Retransmission output	Comm. RS485	Supply voltage	Certification
		AL-1	AL-2				
PIC153-P-C-1	UNIVERSAL	RELAY (10A)	RELAY (10A)	YES	YES	85 to 270V AC / DC	CE