

PROCESS INDICATOR

" Total Solution Under One Roof "
Manufacturing, Servicing & Calibration

5 ½ DIGIT PROCESS INDICATOR

Model : PI 541A



Introduction

SANSEL offers PI 541A Model PROCESS INDICATORS are extremely versatile Indicators that can be used for a wide variety of applications. These INSTRUMENT offer extreme reliability and low cost for Process measurement and logging. PI 541A is a Microprocessor based instrumentation ensures accurate readings for all Linear Parameters. A number of programmable features including In-line calibration are standard. All the parameters are saved in a non volatile EEPROM memory which doesn't needs any external battery.

PI 541A can offer relay outputs for signals exceeding set points. Programmable Re Transmission output models are also available in addition to the industry standard 4 -20mA or 0 - 10V DC output. Optional RS 485 (2 wire) output also provided for PC communication with PC Interface software & also with MODBUS RTU protocol.

Application

Monitoring , Recording, Controlling process in various Applications as follows

- Temperature
- Humidity
- Pressure
- pH / ORP

- TDS / Conductivity
- Flow
- Pressure
- Level
- Voltage / Current /Power
- Resistance and More....,

Features

- > 5 ½ Digit 7 segment RED LED display
- > High Accuracy
- > Compact Size
- > 24 Bit ADC Resolution
- > Selectable Inputs RTD , all types of thermocouples , mA, mV , Voltage , ohms.
- > Wide Selectable Range between -199999 to 199999 counts
- > Easy Field Configurable with Front Key Calibration
- > No Hardware Selection For the Input Signals
- > Optional Opto Isolated Re Transmission Output.
- > Optional RS 485 (2 wire) Output for PC communication
- > Optional PC software with Monitoring, Logging, Report & Graph
- > Optional MODBUS RTU protocol
- > 24V DC External Sensor Supply
- > Programmable Decimal Point & Display Noise Filter
- > Universal Supply Voltage 90 to 270 AC / DC

Specifications

Model	PI 541A
Display	5 ½ Digit 7 segment RED LED
Analog Inputs	0 - 20 mA, 0 to 75 mV, -10 to 10 V DC, 0 - 4000 Ω (H & L Limit Programmable)
Temperature Inputs	RTD - PT 100, PT 1000, Thermocouple - J, K, R, S, T, B, N, E
Analog Display Range*	- 199999 to 199999 (H & L Limit Programmable)
Temperature Range (H & L Limit Programmable)	RTD - PT 100 (-199.99 to 850.00°C / -327.8 to 1562.0°F) RTD - PT 1000 (-50.0 to 400.0°C / -58.0 to 752.0°F) TC - J (- 200.0 to 1200.0°C / -328.0 to 2192.0°F) TC - K (- 200.0 to 1372.0°C / -327.8 to 2501.6°F) TC - R (- 40.0 to 1768.0°C / -40.0 to 3214.4°F) TC - S (- 40.0 to 1768.0°C / -40.0 to 3214.4°F) TC - T (- 200.0 to 400.0°C / -328.0 to 752.0°F) TC - B (300.0 to 1820.0°C / 572.0 to 3308.0°F) TC - N (-200.0 to 1300.0°C / -327.8 to 2372.0°F) TC - E (- 200.0 to 1000.0°C / -327.8 to 1832.0°F)
Unit selection	°C / °F (for RTD & TC inputs)
Analog Resolution	0.0001 / 0.001 / 0.01 / 0.1 / 1 (Selectable)
Temperature Resolution	0.01(for RTD-PT 100 input(°C) only) / 0.1 / 1 °C / °F
Accuracy	± 0.1 % of FS
Filter Constant	1 - 100 % (Adjustable)
Relay Output**(optional)	2 Relay(5A rated) with Four Relay Status Selection, Hysterisis, Cyclic Delay
Re Transmission**(optional)	Opto Isolated Analog Output 4 - 20 mA or 0 - 10V DC
PC Communication **	RS 485 (2 wire)(optional)
PC Software**(optional)	Monitoring, Data Logging, Report & Graph
Sensor Supply(external)	24 V DC ±10% @ 100 mA
Operating Environment	0 - 50°C / 5 to 95 % RH Non Condensing
Power Supply	90 to 270 V AC / DC / 50 / 60 Hz
Over All Dimension	48(H) X 96(W) X 110(D) mm
Cut out Dimension	44(H) X 90(W) mm
Housing	Panel Mountable ABC Plastic
Weight	250 grams (Approx.)

Note: Due to continuous product improvements, Published specifications may change with out notice

* stability of analog input depends on display high range counts

± 10 counts(± 2 lakhs counts), ± 8 counts(± 1 lakhs counts), ± 6 counts(± 50,000 counts), ± 2 counts(± 25,000 counts)

** Relay & Retransmission or PC communication any one was possible in one PI 541A

SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES

NABL Accredited Calibration Lab (Thermal, Mechanical, Electro-Technical Parameters)

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