

# DIFFERENTIAL 2 CHANNEL INPUT LCD PROCESS INDICATOR

Model : PI 590-2



## INTRODUCTION

SANSEL offers PROCESS INDICATORS are extremely versatile 2 channel input 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 590 - 2 is a Microprocessor based instrumentation ensures accurate readings for all Linear Parameters. A number of programmable features including Inline calibration are standard. All the parameters are saved in a non volatile EEPROM memory which doesn't needs any external battery.

PI 590 - 2 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.

## Applications

Monitoring, Recording, Controlling in all type of process industries for following applications,

- Temperature
- Humidity
- Pressure
- pH/ORP
- TDS Conductivity
- Flow
- Level
- Voltage / Current / Power
- Resistance and more.....,

# FEATURES

- ✓ 16 characters x 2 line LCD display
- ✓ High accuracy
- ✓ Compact size
- ✓ 2 channel 4-20 mA input (selectable individual or differential display indicators)
- ✓ User selectable parameters channel 1 or 2 or differential induction
- ✓ Wide selectable range between -19999 to 60000 counts
- ✓ Easy field configurable front key configurations
- ✓ Optional 2 alarm output with four relay status selection
- ✓ Optional opto isolated Re-transmission output
- ✓ 24V DC external sensor supply
- ✓ Programmable decimal point
- ✓ Optional RS 485 Modbus RTU protocol
- ✓ Wide power supply from 90 to 270V AC

## Technical Specifications

Model	PI 590-2
Display	16 characters x 2 line LCD
Input	2 x 4-20 mA
Accuracy	± 0.1% of FS
Display Range	- 19999 to 60000 (H & L Limit Programmable)
Resolution	0.0001 / 0.001 / 0.01 / 0.1 / 1 (Selectable)
Indicator parameters	Channel - 1, Channel - 2 & Differential (selectable)
Relay output (optional)	2 Relay with Four Relay Status Selection (H,L, H/L & Band)
Re-transmission (optional)	Opto Isolated Analog Output 4 - 20 mA or 0 - 10V DC
Communication Output	RS 485 (2 wire) (Optional)
Communication protocol	Modbus RTU
Sensor supply (external)	24V DC ±10% @ 100mA
Operating environment	0 - 50°C / 5 to 95 % RH Non Condensing
Overall Dimension	96(H) X 96(W) X 85(D) mm
Cut out Dimension	90(H) X 90(W) mm
Power Supply	90 to 270 V AC / DC / 50 / 60 Hz

Note: Due to continuous product improvements, published specifications may change without notice



## SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES

ISO/IEC 17025 Accredited Calibration Laboratory by NABL CC - 2879  
(Thermal, Mechanical, Electro-Technical, Dimension Parameters)

1 / 46 , 3<sup>rd</sup> Main road, Ganga Nagar, MMDA Colony , Maduravoyal , Chennai - 600 095. INDIA  
☎ +91 44 2378 3951, 📞 +91 72999 72085 / 86 / 93, 📞 +91 98401 49928 ✉ enquiry@sansel.net

🌐 [www.sansel.net](http://www.sansel.net)

🌐 [www.sansel.in](http://www.sansel.in)

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