

4" 6 DIGIT JUMBO PROCESS INDICATOR

(2", 4", & 8" display sizes)

MODEL : PIJ – 541 B1



Introduction

In the world of modern industrial and manufacturing environments, efficiency, productivity and safety are paramount. To achieve optimal performance, Operators and supervisors rely on advanced tools and technologies that provide real-time insights into the status of critical processes parameter to view from a long distance. One such tool is the jumbo display indicator, This series of big display indicators has a display height of 2",4",8" and 12"sizes, which are visible distance from 50 feet, 100 feet, 200 feet and 400 feet.

These Large size Display Indicator serves as a beacon of information, offering clear and immediate visibility into the ongoing wide range of process parameter applications such as Temperature, Humidity, Pressure, Flow, Level, pH, TDS, Conductivity, Production counting, RPM, Timing, Power, Voltage, Current, Frequency etc.,. these large displays play a pivotal role in keeping operations running smoothly.

We offer customization options to tailor our big display indicators to your specific needs, applications are multiple indicators with different parameters in one panel.

Applications

Our big display indicators cater to a wide range of industries, including but not limited to:

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| ☐ Manufacturing | ☐ Power Generation |
| ☐ Oil & Gas | ☐ Food & Beverage |
| ☐ Automobile | ☐ Pharmaceuticals |
| ☐ Chemical Processing | |

Descriptions

The PIJ 541 B1 Jumbo display universal input process indicator is incorporated with high accuracy 24bit ADC , 6-digit industrial display indicator accept any one input from Thermocouple, RTD, mV, mA and Resistance, with the capability of measuring and indicating temperature, pressure, flow, level and other process variables. The standard PIJ 541 B1 provides a retransmission output, alarm relay outputs and RS-485 MODBUS communications can be added to suit your applications. The input and output are easily configurable by front panel keys. The PIJ 541 B1 has been designed to provide reliable indications in the harshest environments.

Features

- ✓ Different display heights 2", 4" & 8"
- ✓ High accuracy
- ✓ Compact size
- ✓ 24 Bit ADC resolution
- ✓ Selectable inputs RTD, all types of Thermocouples, mA, mV, Voltage, Ohms
- ✓ Wide selectable display 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 with MODBUS RTU protocol
- ✓ Optional PC software with monitoring, logging, report & graph
- ✓ 24V DC external sensor supply
- ✓ Programmable decimal point & display noise filter
- ✓ Universal supply voltage 90 to 270 AC / DC
- ✓ Universal mounting options – hanging, wall mounting, table top etc.,, with rotatable display to adjust the viewing angle.

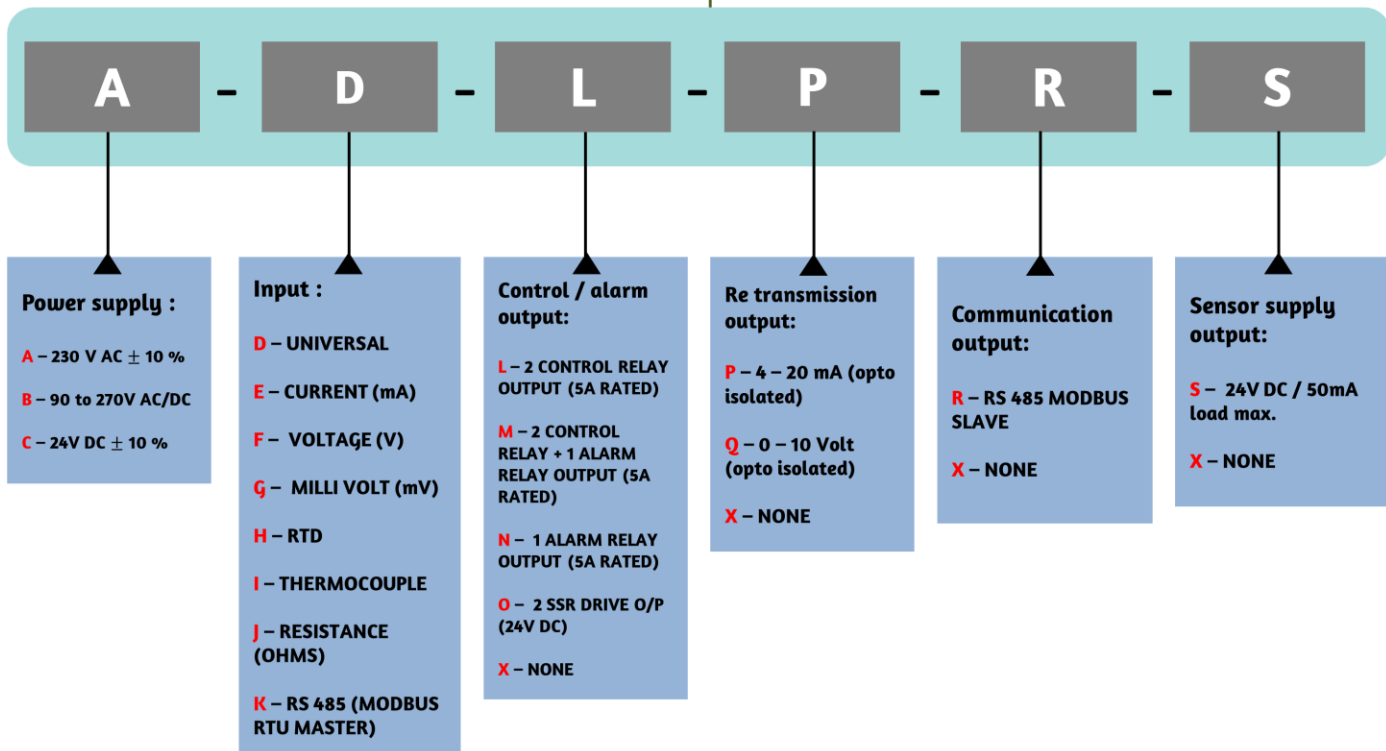
Specifications

Model	PIJ – 541 B1
Display	4" 6 Digit 7 segment RED LED* (Also available in 2" and 8" 6 Digit 7 Segment Red LED variants)
Analog inputs	4 – 20 mA, 0 - 20 mA, 0 to 70 mV, -10 to 10 V DC, 0 – 4000 Ω (H & L Limit Programmable)
Analog Inputs	RTD - PT100, PT1000, Thermocouple - J, K, R, S, T, B, N, E, mA, mV, Volt, Ohms (selectable)
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 / -327.5 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 / -327.0 to 2501.0°F) TC - R (- 40.0 to 1768.0°C / -40.0 to 3214.0°F) TC - S (- 40.0 to 1768.0°C / -40.0 to 3214.0°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 / -327.0 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 input display resolution	0.0001 / 0.001 / 0.01 / 0.1 / 1 (Selectable)
Filter constant	1 – 50% (adjustable)
Display hold option	Peak, hold & average (any one selectable)
Hold delay	0 - 999 sec (selectable)
Relay Output (optional)	2 Relay (5A rated)
Re Transmission(optional)	Opto Isolated Analog Output 4 - 20 mA or 0 - 10V DC
PC communication (optional)	RS 485 (2 wire) MODBUS RTU protocol
PC interface software	Monitoring, Data logging, Report & Graph (Optional)
Sensor Supply (external)	24 V DC $\pm$ 10% @ 100 mA
Power supply	230VAC/50Hz $\pm$ 10%(Optional on request 24V DC $\pm$ 10%)
Overall dimension	611 x 171 x 85 (L x H x D) in mm (Approx.)
Housing	Panel mountable ABS plastic
Mounting	Wall or sealing with 360° rotatable clamp
Operating environment	0 to 50°C / 20 to 95% RH non condensing
Weight (Approx.)	5.5 (or) 8.5 kg

NOTE: Due to continuous improvement published specifications may change without notice
*Refer ordering information optional to select any one display size

ORDERING INFORMATION FOR 5.5 DIGIT JUMBO PROCESS INDICATOR

MODEL : PIJ 541B1 – A – D – L – P – R – S



S.NO.	ordering code	power supply	Display	Input	Control / alarm output	Re transmission output	Communication output	Sensor supply output
1	PIJ 541B1-A-D-L-P-R-S	230 V AC $\pm$ 10 %	4" 5.5 DIGIT	UNIVERSAL	2 CONTROL RELAY OUTPUT(5A RATED)	4 – 20 mA (opto isolated)	RS 485 MODBUS SLAVE	24V DC / 50mA load max.
2	PIJ 541B1-A-D-L-X-X-S	230 V AC $\pm$ 10 %	4" 5.5 DIGIT	UNIVERSAL	2 CONTROL RELAY OUTPUT(5A RATED)	NONE	NONE	24V DC / 50mA load max.
3	PIJ 541B1-A-D-L-P-X-S	230 V AC $\pm$ 10 %	4" 5.5 DIGIT	UNIVERSAL	2 CONTROL RELAY OUTPUT(5A RATED)	4 – 20 mA (opto isolated)	NONE	24V DC / 50mA load max.
4	PIJ 541B1-A-D-X-P-R-S	230 V AC $\pm$ 10 %	4" 5.5 DIGIT	UNIVERSAL	NONE	4 – 20 mA (opto isolated)	RS 485 MODBUS SLAVE	24V DC / 50mA load max.
5	PIJ 541B1-A-D-X-P-X-S	230 V AC $\pm$ 10 %	4" 5.5 DIGIT	UNIVERSAL	NONE	4 – 20 mA (opto isolated)	NONE	24V DC / 50mA load max.
6	PIJ 541B1-A-D-X-X-R-S	230 V AC $\pm$ 10 %	4" 5.5 DIGIT	UNIVERSAL	NONE	NONE	RS 485 MODBUS SLAVE	24V DC / 50mA load max.
7	PIJ 541B1-A-D-X-X-X-S	230 V AC $\pm$ 10 %	4" 5.5 DIGIT	UNIVERSAL	NONE	NONE	NONE	24V DC / 50mA load max.



SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES

ISO/IEC 17025 Accredited Calibration Laboratory by NABL CC - 2879

(Thermal, Mechanical, Electro-Technical, Dimensional Parameters)

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