

Jumbo Display Process Controller with Pressure Transmitter



AI-JD-PV-PR

Product Overview

Jumbo Display Process Controller with Pressure Transmitter is a high-performance microcontroller-based jumbo display process indicator controller integrated with the pressure transmitter for accurate industrial pressure measurement. It features a bright, large LED display for clear long-distance process visualization and real-time monitoring. Supporting universal inputs including 4–20 mA, RTD Pt-100, and thermocouples (J, K, R, S), it offers flexible and reliable process compatibility. Designed for continuous industrial operation, it ensures stable performance, fast response, easy configuration, and enhanced process control in demanding environments.

Features

- Real-time process value indication for instant updates
- Stable and consistent performance in industrial environments
- Easy installation and user-friendly configuration
- Supports wide range of industrial process applications
- Fast signal response for precise process tracking
- Rugged and durable construction for long service life
- Designed for continuous industrial operation

Sensor Specifications

Model No	AI-JD-PV-PR
Measuring Parameters	Pressure
Sensor	Pressure Sensor (MBS 3000)
Pressure Range	0 – 1 bar to 0 – 600 bar (Other Ranges Please Contact Store)
Accuracy	±0.5% FS
Response Time	< 4 ms
Operating Temperature	-40°C to +85°C
Output	0 – 10V, 4 – 20 mA
Overload Capacity	6 X FS (max. 1500 bar)
Dimensions	5.3 × 5.3 × 14 cm

Controller Specifications

Controller	Pressure Process Controller
Display	4 Digit 7 Segment LED Display of Height 4
Excitation Voltage	Optional: 24V.D.C., 50mA Built In Supply for transmitter
Input	User Selectable : 4-20 mA,RTD Pt-100,J,K,R & S thermocouple
Power Supply	Standard 230 V.A.C., 50 Hz. / Optional 24 VDC
Control Output	2 Relays NO/CO/NC rated 230V/6 A from Controller
Communication	Optional RS-485 Modbus Protocol Communication for BMS/SCADA
Retransmission	Optional: 4-20 mA Retransmission
Mounting	Wall Mounted
Enclosure	Front SS back M.S. Powder Coated
Dimensions	535(L) X 255(H) X 70(D)
Supply Scope	1 Unit of Process Controller with Pressure Transmitter, Instruction Manual & Calibration Certificate
Calibration Certificate	Provided at no extra cost, traceable to National/International Standards, Valid for 1 year only
Weight	2.5 kg approx
Warranty	1 Year Manufacturing Warranty
Manufacturer	Ace Instruments

Wiring Diagram

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20
mA+	G	V+	+	-	-	+	-	A	B	G	NO	CO	NC	NO	CO	NC	L	E
ANALOG I/P			RTD I/P			mA O/P		RS-485			RELAY-1		RELAY-2		230VAC			

Compliance



Related Products



Pressure Transmitter
With Display



ABS pressure
Transmitter



E+E Pressure
Transmitter



Pressure Controller
With Transmitter

Applications



Chemical Processing
Industries



Water Treatment Plants



Oil & Gas Facilities



HVAC and Utility Systems

Temp | Humidity | Pressure | Differential Pressure | Vacuum | Gases | Particle | Air Flow
Moisture | Dissolved Oxygen | Radiation | Air Quality | Light / Lux | Distance | Vibration

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