

Jumbo Display Process Controller with Vacuum Transmitter

AI-JD-PV-VAC



Product Overview

Jumbo Display Process Controller with Vacuum Transmitter is a high-performance industrial vacuum monitoring solution designed for accurate measurement and real-time process control. Featuring a large 4-digit LED display, it ensures excellent visibility from long distances, making it ideal for production floors and process plants.

Integrated with the vacuum transmitter, it delivers precise vacuum measurement with a 4-20 mA output.

Supporting optional RS-485 Modbus communication and retransmission, this wall-mounted controller is suitable for HVAC, vacuum systems, pharmaceutical, food processing, and industrial automation applications.

Features

- Large Display for Clear Long-Distance Visibility
- Real-Time Process Value Monitoring
- Accurate and Reliable Vacuum Measurement
- Simple and User-Friendly Operation
- Stable and Consistent Performance
- Rugged Design for Industrial Applications
- Built for Continuous and Reliable Operation

Sensor Specification

Model No	AI-JD-PV-VAC
Measuring Parameters	Vacuum
Sensor	Vacuum Sensor M5100
Excitation Voltage	9-30 V.D.C. (Typical 24 V.D.C.)
Electrical Connection	Right Angle DIN Connector
Durability	10 million cycles 0 to full scale vacuum
Operating Temperature	-40 to +125 Deg. C / -40 to +257 Deg.F
Process Connection	1/4” B.S.P. Male Threaded End Standard
Output	-1bar at 4ma and 0bar is 20ma, 0bar at 4ma and -1bar at 20ma
Housing material	Stainless Steel 304 with S.S. 316 wetted parts

Controller Specification

Controller	Vacuum 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/C/NC rated 230V/6 A from Controller
Communication	Optional RS 485 Modbus Protocol Communication for BMS/SCADA
Retransmission	Optional : 4-20 mA Retransmission
Enclosure	Wall Mountable Powder Coated M.S.
Dimensions	535(L) X 255(H) X 70(D)
Supply Scope	1 Unit of Process Controller with Vacuum Transmitter, Instruction Manual & Calibration Certificate
Calibration Certificate	Provided at no extra cost, traceable to National/International Standards, Valid for 1 year only
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	

Related Products



Vacuum Transmitter



Digital Pirani Vacuum Gauge



Mercury McLeod Vacuum Gauge



Elitech Digital Vacuum Gauge

Applications



Pharmaceutical Manufacturing Plants



Packaging & Automation Machinery



Food & Beverage Processing



Power Plants & Utility Systems

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

Instrukart Holdings

Ph : +91 (40)40262020 | Mob : +91 88865 50506 | +1 208 330 0506

Email : info@instrukart.com

Website : www.instrukart.com

Head Office: #18, Street-1A, Czech Colony, Sanath Nagar, Hyderabad -500018, INDIA.

