

Jumbo Display Process Controller

Analog 4-20mA/0-10V & RTD Inputs



AI-JD-PV

Product Overview

Jumbo Display Process Controller is a high-performance industrial process monitoring solution designed for accurate measurement and clear long-distance visibility. Featuring a large 4-inch LED display.

It supports multiple input types, **including 4–20 mA (also compatible with 2-wire and 3-wire pressure transmitters), 0–10 V, and RTD Pt-100**, making it suitable for a wide range of process control applications.

Its rugged wall-mounted enclosure, dual relay outputs, optional RS-485 Modbus communication, and optional 4–20 mA retransmission ensure seamless integration with industrial automation systems.

The AI-JD-PV is ideal for monitoring temperature, pressure, dew point, airflow, infrared temperature, and many other critical process parameters in demanding industrial environments.

Features

- Large 4-inch LED display for easy long-distance viewing.
- Supports RTD, 0-10V & 4-20 mA inputs.
- Dual relay outputs for efficient process control.
- Optional RS-485 Modbus for BMS/SCADA integration.
- Optional 4–20 mA retransmission for signal output.
- Durable powder-coated wall-mounted metal enclosure.
- Ideal for temperature, pressure, level, and flow monitoring application.

Dimensions



Controller Specification

Model No	AI-JD-PV
Display	4 Digit 7 Segment LED Display of Height 4"
Excitation Voltage	Optional : 24VDc 50mA built In Supply for transmitter Contact Store
Input	User Selectable : 4-20 mA, 0-10v ,RTD Pt-100
Power Supply	Standard 110V to 230 V.A.C, 50-60 Hz. / Optional 24 VDC
Control Output	2 Relays NO/C/NC rated 230V/6 A
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) mm
Supply Scope	1 Unit of Process Controller with 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			

Compliance



Related Products



Jumbo Display With
IR Sensor



Jumbo Display With
RTD Sensor



Jumbo Display With
Pressure Sensor

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

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