Jumbo Display Process Controller with Non-Contact Temperature Transmitter

AI-JD-PV-IR

Product Overview

Jumbo Display Process Controller with Non-Contact Temperature Transmitter is designed for accurate, real-time temperature monitoring in industrial applications. Using an infrared temperature sensor, it measures surface temperatures from 0°C to 500°C without physical contact, making it ideal for hot, moving, or inaccessible objects. Its large 4-inch LED display ensures excellent visibility from long distances, while optional RS-485 Modbus communication and 4-20 mA retransmission enable seamless integration with BMS and SCADA systems.
The wall-mounted, rugged enclosure ensures reliable performance in demanding industrial environments.

Features

- Large, Bright Display for Long-Distance Visibility
- Accurate Non-Contact Temperature Measurement
- Real-Time Temperature Monitoring
- Fast Response for Instant Process Updates
- Safe Measurement of Hot and Moving Surfaces
- High Reliability for Continuous Industrial Operation
- Improves Process Control and Productivity
- Rugged Design for Harsh Industrial Environments
- Easy Installation and Simple Operation
- Long Service Life with Low Maintenance

Sensor Specification

Model No	AI-JD-PV-IR
Measuring Parameters	Temperature
Sensor	Infrared Temperature sensor
Temperature Range	0°C to 500°C (32°F to 932°F)
Accuracy	±1% of reading or ±1.5°C, whichever is Greater
Ambient Temperature	0°C to 70°C
Storage Temperature	-20°C to 85°C
Analog Output	4 to 20 mA (4-wire)
Optical Resolution	20:1
Cable Length	2 m, Standard for extension please contact store
Sensor Power Supply	9-32 VDC

Controller Specification

Controller	Infrared 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
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
Power Supply	Standard 230 V.A.C., 50 Hz. / Optional 24 VDC
Enclosure	Wall Mountable Powder Coated M.S.
Dimensions	535(L) X 255(H) X 70(D)
Supply Scope	1 Unit of Process Controller with Non-Contact Temperature 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 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	

Related Products

Fluke
Infrared Thermometer

Testo
Temperature Infrared
Thermometer

Infrared Thermometer
Temperature Controller

Digital
Infrared Thermometer

Applications

Steel and Metal Industries for
Hot Surface Measurement

Glass Industry for furnace &
melting process monitoring

Chemical Industry for Safe Process
Temperature Tracking

Pharmaceutical Industry for
controlled environment processes

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

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