

Jumbo Display Process Controller with Dew Point Transmitter

AI-JD-PV-DEP



Product Overview

Jumbo Display Process Controller with Dew Point Transmitter is a high-performance industrial monitoring solution designed for accurate dew point measurement in compressed air, gas, and process applications. Featuring a large 4-digit LED display, it provides clear long-distance visibility and real-time monitoring of dew point values.

Compatible with 4–20 mA transmitters, the system offers optional RS-485 Modbus communication, retransmission output, and dual relay control. Built with a rugged IP65 stainless steel sensor and wall-mounted enclosure, it ensures reliable performance in demanding industrial environments while improving process efficiency and moisture control.

Features

- Large Display for Long-Distance Visibility
- Accurate Dew Point Measurement
- Real-Time Process Monitoring
- Displays Dew Point, Temperature & Humidity
- Fast and Reliable Performance
- Easy Setup and User-Friendly Operation
- Durable Industrial-Grade Construction
- Supports Continuous 24/7 Operation

Sensor Specification

Model No	AI-JD-PV-DEP
Measuring Parameters	Dew Point
Sensor	Dew Point sensor (E355-PA1SA)
Range	20 to 200,000 ppm
Accuracy	±(2 ppm + 9 % from measured value)
Electromagnetic compatibility	EN61326-1 EN61326-2-3 Industrial environment FCC Part 15 ICES-003 ClassB
Sensor Protection	Stainless steel sintered filter
Pressure Working Range	0...80 bar (0...1 160 psi)
Temperature Working Range	-40...+70 °C (-40...+158 °F)
Humidity Working Range	0...100%RH
Analog Output	4 – 20 mA (3-wire technology) RL < 500 Ohm
Response Time	< 5 min -20 °C Td (-4 °F Td) ⌘ -60 °C Td (-76 °F Td),15 sec -60 °C Td (-76 °F Td) ⌘ -20 °C Td (-4 °F Td)
Protection class	Stainless steel 1.4404 (AISI 316L) / IP65
Dimensions	140 X Ø30 mm
Sensor Power Supply	18...28 V DC

Controller Specification

Controller	Dew Point 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 Dew Point 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		

Compliance



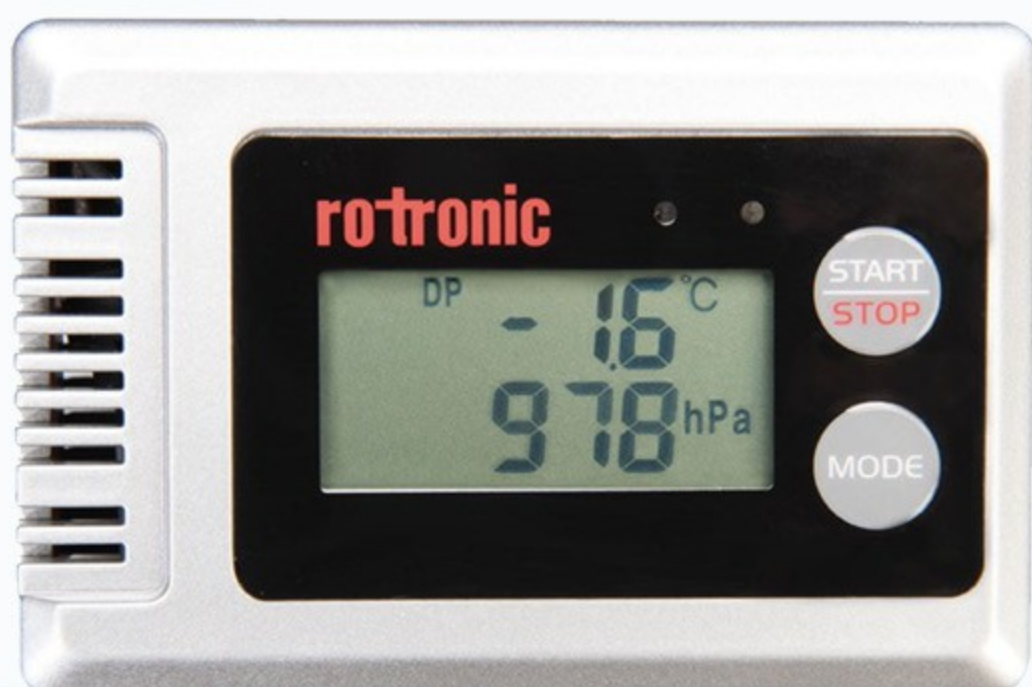
Related Products



Vaisala Handheld
Dew Point Meter



Michell Easidew Online
Dew Point Hygrometer



Rotronic Barometric
Pressure, Humidity
Temperature
& Dew Point



Dew Point
Transmitter with
Controller

Applications



Pharmaceutical
Manufacturing Plants



HVAC & Building
Automation



Pharmaceutical Manufacturing



Oil & Gas Processing

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

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