



HUMIDITY

DEW POINT, ENTHALPY, AND WET BULB TRANSMITTERS

DP4A, EN4A, AND WB4A SERIES

DESCRIPTION

Models DP4 Dew Point, WB4 Wet Bulb, and EN4 Enthalpy Transmitters are rugged, compact, and ideally suited for monitoring dew point, wet bulb, or enthalpy in building automation and process applications. Using a capacitive RH sensor and an RTD temperature sensor, the unit's microprocessor computes the dew point, wet bulb, or enthalpy. Two linear outputs provide a 4-20 mA signal for dew point, wet bulb, or enthalpy and a 4-20 mA signal for dry bulb temperature.

FEATURES

- Dew point accuracy of $\pm 1.8^{\circ}\text{F}$ ($\pm 1^{\circ}\text{C}$) over the specified range
- Enthalpy accuracy of ± 2 BTU/lb over specified range
- Wet bulb accuracy of $\pm 3^{\circ}\text{F}$ over the specified range
- Dry bulb accuracy of $\pm 0.5^{\circ}\text{F}$ ($\pm 0.3^{\circ}\text{C}$) over the specified range
- Two 4-20 mA output signals
- Microprocessor-based signal processing
- Weather resistant duct/OSA mounting
- Temperature compensated

NEW!



Distributor
GE Sensing & Inspection Technologies



APPLICATIONS

- WB4 evaporative cooling decision potential
- DP4 supply air setpoint (condensation prevention)
- EN4 economizer efficiency



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SPECIFICATIONS

Sensor	Capacitive and replaceable	Supply voltage	12-30 VDC
Room range		Output	Field selectable: 4-20 mA (700 Ω max load), 0-5 V, or 0-10 V
Dew point	40° to 90°F (4.4° to 32.2°C)		Humidity and dry bulb temperature
Enthalpy	0-50 BTU/lb		
Wet bulb	40° to 90°F (4.4° to 32.2°C)	Operating ranges	
Dry bulb	40° to 90°F (4.4° to 32.2°C)	Ambient	-40° to 140°F (-40° to 60°C)
Duct/OSA range			0 to 99% RH, non-condensing
Dew point	-20° to 120°F (-28.8° to 49°C)	Storage	-67° to 185°F (-55° to 85°C)
Enthalpy	0-50 BTU/lb	Duct probe	8.8"L (22.4 cm)
Wet bulb	0° to 100°F (-17.8° to 37.8°C)		0.50" diameter (1.27 cm)
Dry bulb	-20° to 120°F (-28.8° to 49°C)	OSA probe/shield	6.4"L (1.6 cm)
Accuracy			2.75"D (7 cm)
Dew point	$\pm 1.8^{\circ}\text{F}$ ($\pm 1^{\circ}\text{C}$)	Agency approvals	CE
Enthalpy	± 2 BTU/lb	Weight	1.0 lb (0.45 kg)
Wet bulb	$\pm 3^{\circ}\text{F}$ ($\pm 1.7^{\circ}\text{C}$)	Warranty	1 year
Dry bulb	$\pm 0.5^{\circ}\text{F}$ ($\pm 0.9^{\circ}\text{C}$)		

DIMENSIONS

Cover (all mounts)	Space (Wall) Mount	Outside Air Mount	Duct Mount
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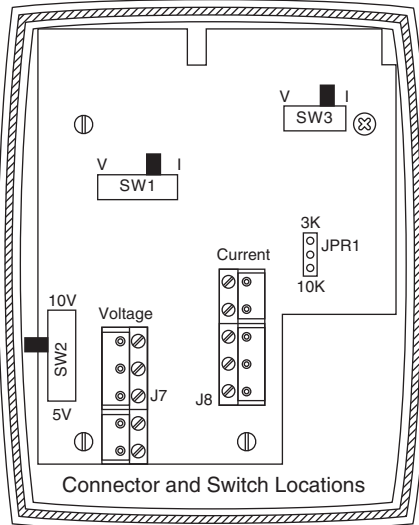
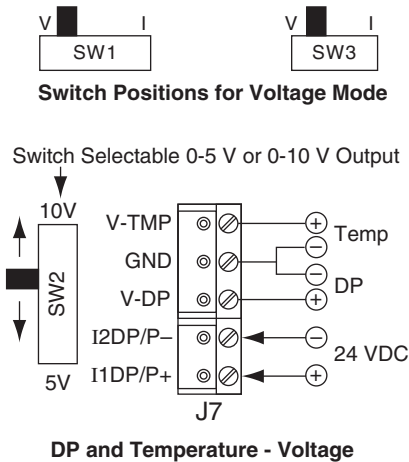
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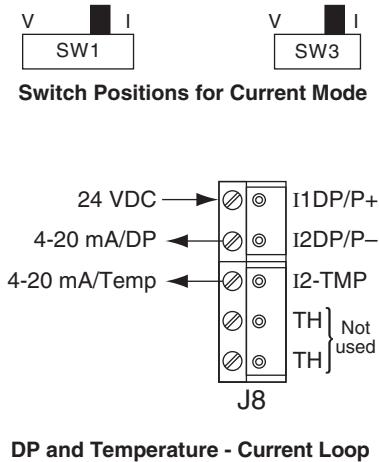
NEW!

WIRING

VOLTAGE MODE



CURRENT MODE



ORDERING INFORMATION

MODEL	DESCRIPTION
DP4A-S	Room dew point and dry bulb transmitter
DP4A-D	Duct dew point and dry bulb transmitter
DP4A-O	OSA/Wall dew point and dry bulb transmitter
EN4A-S	Room enthalpy and dry bulb transmitter
EN4A-D	Duct enthalpy and dry bulb transmitter
EN4A-O	OSA enthalpy and dry bulb transmitter
WB4A-S	Room wet bulb and dry bulb transmitter
WB4A-D	Duct wet bulb and dry bulb transmitter
WB4A-O	OSA wet bulb and dry bulb transmitter

NEW!