

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 normal range
- Enthalpy accuracy of ± 2 BTU/lb over normal range
- Wet bulb accuracy of $\pm 3^{\circ}\text{F}$ over the normal range
- Dry bulb accuracy of $\pm 0.05^{\circ}\text{F}$ ($\pm 0.03^{\circ}\text{C}$) over the normal 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

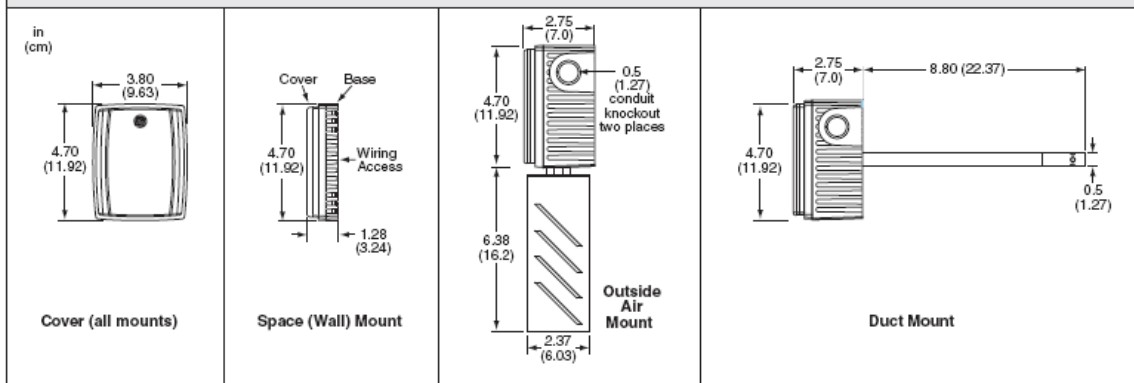
Duct



SPECIFICATIONS

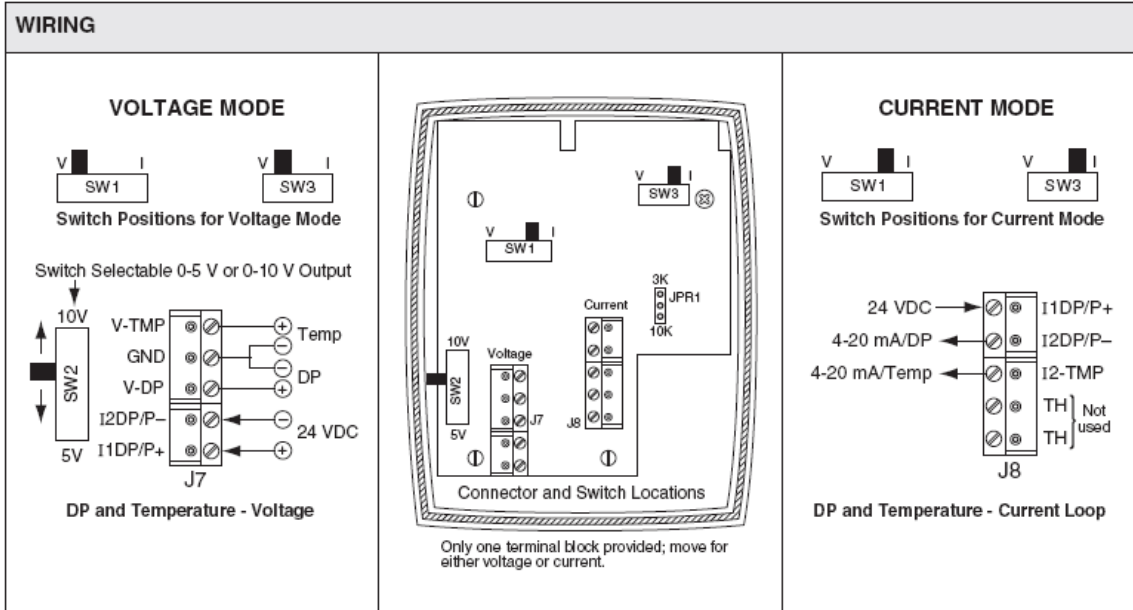
Sensor	Capacitive and replaceable	Supply voltage	12-30 VDC
Room range		Output	Field selectable: 4-20 mA (700Ω max load), 0-5 V, or 0-10 V
Dew point	40° to 90°F (4.4° to 32.2°C)		Humidity and dry bulb temp
Enthalpy	0-50 BTU/lb	Operating ranges	
Wet bulb	40° to 90°F (4.4° to 32.2°C)	Ambient	-40° to 140°F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

DIMENSIONS



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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

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