Standard Duct Temperature Sensors

Duct Temperature Sensors — Various Outputs







Duct Sensor with Flexible Probe



536-811 Bracket Mounted Duct Sensor



Description

The Duct Temperature Sensors monitor and transmit changes in temperature to the building control system. Specific devices within the range are compatible with most North American building automation systems.. They install directly into the duct and are equipped with necessary mounting hardware. All sensors incorporate precision temperature sensing elements to accurately and reliably measure temperature.

Features

- Variety of sensing elements
- · Responsive to temperature change
- · Accurate and reliable indication of duct temperature
- · Simple installation requires no special tools

Applications

Duct temperature sensors are used throughout forced air HVAC systems to monitor air temperature within the ductwork. Single point sensors include one sensing element. Averaging sensors incorporate multiple sensing elements and are typically used in larger ducts where some temperature stratification may occur.

Specifications

Output Signals

Active		
Passive		Pt 1k Ω (375 alpha)
		Pt 1k Ω (385 alpha) Ni 1k Ω @32F
		Ni 1k Ω @321
		NTC 100k Ω
		NTC 10k Ω Type II
		NTC 10k Ω Type III
Accuracy		
		±1.0°F (±0.5°C)
Pt RTD and Ni RTI	D, mid-range	±0.75°F (±0.4°C)
Conduit Connection	Threads	1/2-inch – 14 NPSMI
Housing		IEC approved 2 × 4 inch (5 × 10 cm) box with 1/2 inch (13 mm) knockouts
Duck - Material	0.000 \A/-11.0A	E IEOO ZEEM an Oalfan ata al tabian

Probe Material......... 0.028 Wall SAE J526 ZTEW or Galfan steel tubing

Standard Duct Temperature Sensor Ordering

Application	Description	Output Signal	Part Number	Range	Data Sheet
	Duct Averaging Sensor with 16 ft. Probe		544-342-16		149-261P25
	Duct Averaging Sensor with 18 in. Probe		544-343-18		149-261P25
	Duct Averaging Sensor with 24 ft. Probe		544-342-24		149-261P25
	Duct Averaging Sensor with 24 in. Probe	Platinum 1k Ω 375 alpha	544-343-24	Controller	149-261P25
Du Du Du Du Du Du Du Du Du Du Du Du Du D	Duct Averaging Sensor with 36 in. Probe	575 alpha	544-343-36	Dependent	149-261P25
	Duct Averaging Sensor with 48 in. Probe		544-343-48		149-261P25
	Duct Averaging Sensor with 8 ft. Probe		544-342-8		149-261P25
	Duct Averaging Sensor with 16 ft. Probe		533-380-16	20 to 120F	149-263P25
	Duct Averaging Sensor with 18 in. Probe		535-490-18		149-263P25
	Duct Averaging Sensor with 24 ft. Probe		533-380-24		149-263P25
	Duct Averaging Sensor with 24 in. Probe	4-20 mA	535-490-24		149-263P25
	Duct Averaging Sensor with 36 in. Probe		535-490-36		149-263P25
	Duct Averaging Sensor with 48 in. Probe		535-490-48		149-263P25
	Duct Averaging Sensor with 8 ft. Probe		533-380-8		149-263P25
	Duct Averaging Sensor with 16 ft. Probe		QAM2020.500		149-916
Averaging	Duct Averaging Sensor with 24 ft. Probe	NICKEI 1K II @ 32F	Nickel 1k Ω @ 32F QAM2020.750		149-916
Duct Averaging S Duct Averaging S	Duct Averaging Sensor with 24 ft. Probe	Nickel 1k Ω @ 70F	QAM2021.750		149-916
	Duct Averaging Sensor with 18 in. Probe		540-244-18		149-916
	Duct Averaging Sensor with 36 in. Probe	NTC 100k Ω Type 2	540-245-36		149-916
	Duct Averaging Sensor with 72 in. Probe		540-246-72		149-916
	Duct Averaging Sensor with 16 ft. Probe	NTC 10k Ω Type 2	QAM2030.500		149-916
	Duct Averaging Sensor with 16 ft. Probe	NTC 10k Ω Type 3	QAM2032.500		149-916
	Duct Averaging Sensor with 24 ft. Probe	NTC 10k Ω Type 2	QAM2030.750	Controller	149-916
	Duct Averaging Sensor with 24 ft. Probe	NTC 10k Ω Type 3	QAM2032.750	Dependent	149-916
	Duct Averaging Sensor with 8 ft. Probe	NTC 10k Ω Type 2	QAM2030.250		149-916
	Duct Averaging Sensor with 8 ft. Probe	NTC 10k Ω Type 3	QAM2032.250	50 00 550 8 4	149-916
	Duct Averaging Sensor with 16 ft. Probe		QAM2012.500		149-916
	Duct Averaging Sensor with 24 ft. Probe	Platinum 1k Ω	QAM2012.750		149-916
	Duct Averaging Sensor with 8 ft. Probe	385 alpha	QAM2012.250		149-916
	Duct Temp Sensor with 18" Probe		544-339-18		149-916
	Duct Temp Sensor with 4" Probe	Platinum 1k Ω	544-339-4		149-916
Duct Temp Duct Temp	Duct Temp Sensor with 8" Probe	375 alpha	544-339-8		149-916
	Duct Temp Sensor with 18" Probe		533-376-18	20 to 120F	149-263P25
	Duct Temp Sensor with 18" Probe	4-20 mA	533-377-18	70 to 220F	149-263P25
	Duct Temp Sensor with 18" Probe		544-560-18	4 to 122F	149-263P25
	Duct Temp Sensor with 4" Probe		533-376-4	20 to 120F	149-263P25
	Duct Temp Sensor with 4" Probe		533-377-4	70 to 220F	149-263P25
	Duct Temp Sensor with 4" Probe		544-560-4	4 to 122F	149-263P25
	Duct Temp Sensor with 8" Probe		533-376-8	20 to 120F	149-263P25
	Duct Temp Sensor with 8" Probe		533-377-8	70 to 220F	149-263P25
	Duct Temp Sensor with 8" Probe		544-560-8	4 to 122F	149-263P25
	Duct Temp Sensor with 18" Probe		QAM2020.045		149-915
	Duct Temp Sensor with 4" Probe	Nickel 1k Ω @ 32F	QAM2020.010	Controller Dependent	149-915
	Duct Temp Sensor with 8" Probe		QAM2020.020		149-915
	Duct Temp Sensor with 18" Probe		QAM2021.045		149-915
	Duct Temp Sensor with 8" Probe	Nickel 1k Ω @ 70F	QAM2021.020		149-915
	Duct Temp Sensor with 18" Probe		535-741-18		149-262P25
	Duct Temp Sensor with 4" Probe (2" x 4" box)		535-741-4		149-262P25
	Duct Temp Sensor with 4" Probe (bracket mount)	NTC 100k Ω Type2	536-811		149-134P25
	Duct Temp Sensor with 8" Probe		535-741-8		149-262P25
	Duct Temp Sensor with 18" Probe	NTC 10k Ω Type 2	QAM2030.045		149-915
	Duct Temp Sensor with 18" Probe	NTC 10k Ω Type 3	QAM2032.045		149-915
			QAM2032.045		149-915
	Duct Temp Sensor with 4" Probe				110 010
	Duct Temp Sensor with 4" Probe	NTC 10k Ω Type 2	QAM2032 010		149-915
	Duct Temp Sensor with 4" Probe	NTC 10k Ω Type 3	QAM2032.010		149-915 149-915
	Duct Temp Sensor with 4" Probe Duct Temp Sensor with 8" Probe	NTC 10k Ω Type 3 NTC 10k Ω Type 2	QAM2030.020		149-915
	Duct Temp Sensor with 4" Probe Duct Temp Sensor with 8" Probe Duct Temp Sensor with 8" Probe	NTC 10k Ω Type 3	QAM2030.020 QAM2032.020		149-915 149-915
	Duct Temp Sensor with 4" Probe Duct Temp Sensor with 8" Probe	NTC 10k Ω Type 3 NTC 10k Ω Type 2	QAM2030.020		149-915