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CATALOG KỸ THUẬT · JOHNSON CONTROLS

Cảm biến nhiệt độ TE-6300

ống gió, gắn tường, ngoài trời, nhúng · Ni1000, Pt1000, NTC

TE-6300 Johnson Controls – cảm biến nhiệt độ thụ động Ni1000, Pt1000, NTC 10K: lắp ống gió, trung bình ống gió, gắn tường, ngoài trời, nhúng, kẹp ống cho BMS.

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Temperature Sensor and Transmitter

TE-6300 Series Temperature Sensor

Introduction

The TE-6300 Temperature Sensor line provides economical solutions for a wide variety of temperature sensing needs, including wall-mount, outdoor-air, duct, strap-mount, well-insertion, duct-averaging, and VAV Modular Assembly (VMA) flange-mount duct-probe applications. The TE-6300 line offers both a metal and a plastic enclosure for the most popular models.

Sensors are available in the following types:

- 1k ohm thin-film nickel
- 1k ohm nickel averaging
- 1k ohm thin-film platinum
- 100 ohm platinum equivalent averaging
- 1k ohm platinum equivalent averaging
- 2.2k (2,252) ohm thermistor
- 10k ohm thermistor, Johnson Controls® Type II

Features and Benefits

Each sensor is packaged with the necessary mounting accessories to maximize ordering and installation ease and to reduce both commissioning time and cost.

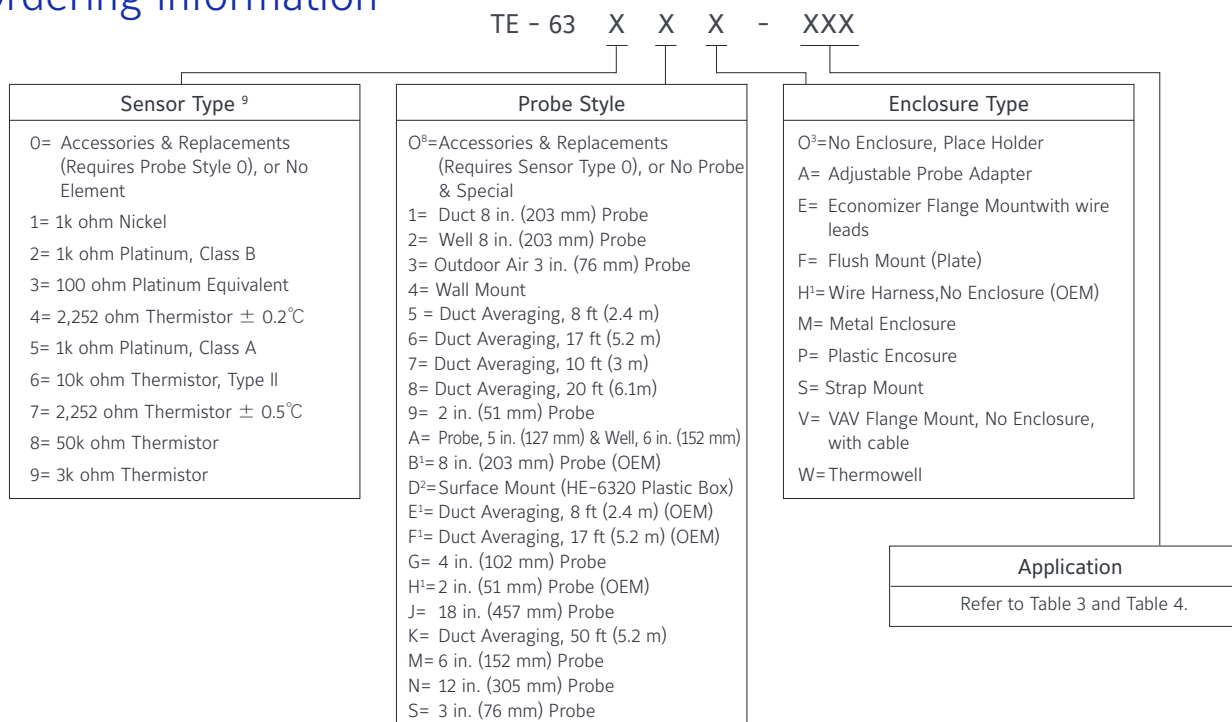
- **Full Line of Versatile Sensors** - Supports all your temperature sensing needs from a single supplier: wall-mount, outdoor-air, duct, duct-averaging, strap-mount, well-insertion, and flange-mount duct-probe.
- **Single Assembly Ordering** - Simplifies ordering; provides a complete assembly in one box.
- **Models Featuring an Integral National Pipe Thread (NPT) Adaptor** - Increase sensor connection strength, which eliminates the need for a special adaptor.



Figure 1: TE-6300 Series Temperature Sensors

- **Models with a Stainless Steel Sensor Probe** - Protect the sensor while increasing corrosion resistance.
- **Metal Enclosure (TE-63xxE, TE-63xxM, and TE-63xxV Models)** - Meets plenum requirements.
- **Models Featuring a Retainer for the Sensor Holder** - Allow you to lock the sensor holder into the conduit box.
- **Brushed Stainless Steel Mounting Plate** - Offers a durable, aesthetically pleasing design.
- **Low Profile Flush Mount Design (TE-63xxF Models)** - Provides a tamper-proof installation ideally suited for schools, sporting complexes, retailers, prisons, and more.

Ordering Information



Note: Not all possible combinations are available. See Table 3 for available models.

Temperature Sensor and Transmitter

Technical Specifications

TE-6300 Series Temperature Sensors (Part 1 of 3)

Sensor Reference Resistance	1k ohm nickel	1k ohms at 70 ° F (21°C)
	1k ohm nickel averaging	
	1k ohm platinum	1k ohms at 32 ° F (0°C)
	100 ohm platinum averaging	100 ohms at 32 ° F (0°C)
	1k ohm platinum averaging	1k ohms at 32 ° F (0°C)
	2.2k ohm thermistor	2,252 ohms at 77 ° F (25°C)
	10k ohm thermistor	10.0k ohms at 77 ° F (25°C)
Sensor Accuracy	1k ohm nickel	±0.34° F at 70 ° F (±0.19°C at 21°C)
	1k ohm nickel averaging	±3.4° F at 70 ° F (±1.9°C at 21°C)
	1k ohm platinum Class A (TE-635xx)	EN 60751 Class A, ± [0.15 + 0.002 * T ° C], ±0.19C° at 21°C (±0.35° F at 70° F)
	100 ohm platinum Class A	
	1k ohm platinum Class B (TE-632xx)	EN 60751 Class B, ± [0.30 + 0.005 * T ° C], ±0.41C° at 21°C (±0.73° F at 70° F)
	100 ohm platinum averaging	±1.0° F at 70 ° F (±0.58°C at 21°C)
	1k ohm platinum averaging	
	2.2k ohm thermistor	±0.36° F (±0.2C°) in the range: 32 to 158° F (0 to 70°C)
	10k ohm thermistor	±0.9° F (±0.5C°) in the range: 32 to 158° F (0 to 70°C)
Sensor Temperature Coefficient	1k ohm nickel	Approximately 3 ohms/° F (5.4 ohms/°C)
	1k ohm nickel averaging	
	1k ohm platinum	Approximately 2 ohms/° F (3.9 ohms/°C), 3,850 ppm/K
	100 ohm platinum averaging	Approximately 0.2 ohms/° F (0.39 ohms/°C)
	1k ohm platinum averaging	Approximately 2 ohms/° F (3.9 ohms/°C)
	2.2k ohm thermistor	Nonlinear, negative temperature coefficient (NTC)
	10k ohm thermistor	Nonlinear NTC, Johnson Controls Type II
Electrical Connection	TE-63xxE	22 AWG (0.6 mm diameter) x 6 in. (152 mm) long
	TE-63xxM	
	TE-63xxP	
	TE-63xxF	22 AWG (0.6 mm diameter) x 12 ft (3 m) braided copper wires, low voltage insulation, half-stripped ends
	TE-63xxP nickel averaging	18 AWG (1.0 mm diameter) x 6 in. (152 mm) long
	TE-63xS	22 AWG (0.6 mm diameter) x 10 ft (3 m) long plenum-rated cable
	TE-63xxA	22 AWG (0.6 mm diameter) x 10 ft (3 m) long plenum-rated cable, with 2-position plug terminal block for 1/4 in. (6.35 mm) external tab terminals on 0.197 in. (5 mm) centers
	TE-63xxV	

Temperature Sensor and Transmitter

Technical Specifications

TE-6300 Series Temperature Sensors (Part 2 of 3)

Materials	Probes	Nickel averaging: Nickel averaging adaptor: Platinum averaging probe: All others:	0.094 in. (2.4 mm) outside diameter (O.D.) copper tubing 0.25 in. (6.35 mm) O.D. brass 0.19 in. (4.8 mm) aluminum tubing 0.25 in. (6.35 mm) O.D. stainless steel
	TE-63xxA	Mounting adaptor plate and gland:	thermoplastic
	TE-63xxF	Flush mount:	stainless steel
	TE-63xxM	Enclosure:	corrosion-protected steel
		Well sensor holder:	0.875 in. (22.2 mm) hex brass
	TE-63xxP	Conduit box and shield:	rigid thermoplastic
		Mounting plate:	aluminum
		Sensor holder:	rigid thermoplastic
		Wall mount base plate:	corrosion-protected steel
		Wall mount cover:	rigid thermoplastic (white)
		Wall mount face plate:	brushed aluminum
	TE-63xxE	Mounting flange:	stainless steel
	TE-63xxV		
Operating Conditions	TE-63xxA		-50 to 140° F (-46 to 60°C)
	TE-63xxF		32 to 104° F (0 to 40°C)
	TE-63xxE		-50 to 220° F (-46 to 104°C)
	TE-63xxM		
	TE-63xxP	Enclosure:	-50 to 122° F (-46 to 50°C)
		Sensor probe:	-50 to 220° F (-46 to 104°C)
	TE-63xS	Sensor probe:	-50 to 220° F (-46 to 104°C)
Shipping Weight	TE-63xxV	Wire harness:	-50 to 122° F (-46 to 50°C)
	TE-63xxA		0.2 lb (0.09 kg)
	TE-63xxE		
	TE-63xxF		0.25 lb (113.4 kg)
	TE-63xxM	Duct averaging:	0.9 lb (0.41 kg)
		Duct mount:	0.4 lb (0.18 kg)
		Well insertion:	0.5 lb (0.23 kg)
	TE-63xxP	Duct averaging:	0.5 lb (0.23 kg)
		Duct mount:	0.4 lb (0.18 kg)
		Outdoor air:	0.5 lb (0.23 kg)
		Wall mount:	0.2 lb (0.09 kg)
		Well insertion:	0.35 lb (0.16 kg)
	TE-63xS	Strap mount:	0.2 lb (0.09 kg)
	TE-63xxV	Duct averaging:	0.7 lb (0.32 kg)
		Duct mount:	0.2 lb (0.09 kg)

Technical Specifications

TE-6300 Series Temperature Sensors (Part 3 of 3)

Dimensions (H xWxD)	TE-63xxA		2.17 in. (55 mm) diameter plus 4 or 8 in. (102 or 203 mm) element
	TE-63xxE	Duct mount:	2.5 x 1.50 in. (57 x 38 mm) plus 2, 6, 8, or 12 in. (51, 152, 203, or 305 mm) element
	TE-63xxF	Flush mount:	4-1/2 x 2-3/4 in. (114 x 70 mm)
	TE-63xxM	Duct averaging:	1.87 x 1.87 x 1.80 in. (47.5 x 47.5 x 45.8 mm) plus 8 or 17 ft (2.4 or 5.2 m) element
		Duct mount:	1.87 x 1.87 x 1.80 in. (47.5 x 47.5 x 45.8 mm) plus 4, 8, or 18 in. (102, 203, or 457 mm) element
		Well insertion:	1.87 x 1.87 x 1.80 in. (47.5 x 47.5 x 45.8 mm) plus 6 or 8 in. (152 or 203 mm) element
	TE-63xxP	Duct averaging:	5.97 x 1.38 x 2.75 in. (152 x 35 x 70 mm) plus 8, 10, 17, or 20 ft (2.4, 3.0, 5.2, or 6.1 m) element
		Duct mount:	5.97 x 1.38 x 2.75 in. (152 x 35 x 70 mm) plus 6 or 8 in. (152 or 203 mm) probe
		Outdoor air:	5.97 x 3.47 x 4.46 in. (152 x 88 x 113 mm)
		Wall mount:	2.09 x 3.12 x 1.80 in. (53 x 79 x 46 mm)
		Well insertion:	5.97 x 1.38 x 2.75 in. (152 x 35 x 70 mm) plus 6 or 8 in. (152 or 203 mm) probe
	TE-63xS	Strap mount:	0.25 in. (6.4 mm) diameter x3.00in. (76mm) long
	TE-63xxV	Duct averaging:	2.25 x 1.50 in. (57 x 38 mm) plus 8 or 17 ft (2.4 or 5.2 m) element
		Duct mount:	2.25 x 1.50 in. (57 x 38 mm) plus 4 or 8 in. (102 or 203 mm) element

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls shall not be liable for damages resulting from misapplication or misuse of its products.

Johnson Controls HT7000 Series Temperature Transmitter

Introduction

Johnson Controls HT7000 series temperature transmitter is designed for office building, hospital and other application, which is a basic sensor product can detect the ambient temperature parameter. This product selects high precision sensing element and circuit to convert the measured value into analog signal output to compatible with Johnson Controls BAS system.

Feature

- Good long-term stability and anti-interference ability
- Static overvoltage and reverse connection protection
- IP65 High IP protection
- Multiple installation modes available





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CÔNG TY TNHH THƯƠNG MẠI DỊCH VỤ DLK

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ĐỊA CHỈ THUẾ

G6/18H Đường Trần Văn Giàu, Xã Bình Lợi,
Thành phố Hồ Chí Minh, Việt Nam

VĂN PHÒNG

CS1: 111/7 Vườn Lài, Phú Thọ Hòa, Tân Phú,
TP.CHM

CS2: TT1-09 Foresa 4A, KĐT Xuân Phương,
TP. Hà Nội

HOTLINE

093 797 2339

EMAIL

info@dlk.com.vn

WEBSITE

www.dlk.com.vn