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CATALOG KỸ THUẬT · JOHNSON CONTROLS

Cảm biến nhiệt độ độ ẩm HT7000

ống gió, gắn tường, nhúng · 0–10 V, 4–20 mA

HT7000 Johnson Controls – cảm biến nhiệt độ độ ẩm PT1000 $\pm 0,3$ °C, $\pm 3\%$ RH, ngõ ra 0–10 V hoặc 4–20 mA, IP65, kiểu ống gió, gắn tường, nhúng tới 150 °C.

Mã: HT7000 · Hãng: Johnson Controls · Hotline: 093 797 2339

dlk.com.vn/ht7000-johnson-controls-cam-bien-nhiet-do-do-am.html



www.dlk.com.vn

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



Temperature Sensor and Transmitter

Naming Rule

Series	Installation Mode	Temperature Measurement Range	Output	Probe length
HT7000	D: Duct Type	1: -40~60℃	V: Voltage output 0-10V	0: Default (0 for Duct type and Wall mount)
	W: Wall Mount	2: -20~80℃	C: Current output 4-20mA	1: 65mm
	I: Immersion Type	3: 0~50℃		2: 102mm
		4: -10~50℃		3: 152mm
		5: -40~150℃		4: 300mm (1-4 for immersion type only)

Note: Immersion product includes protection well, same length with probe. The material of protection well is SS304.

Selection Table

Part Number	Output	Temperature Accuracy	Temperature Measurement Range	IP Protection	Probe Length
HT7000D1V0	0-10V	±0.3℃@25℃	-40~60℃	IP65	Default
HT7000D1C0	4-20mA	±0.3℃@25℃	-40~60℃	IP65	Default
HT7000D2V0	0-10V	±0.3℃@25℃	-20~80℃	IP65	Default
HT7000D2C0	4-20mA	±0.3℃@25℃	-20~80℃	IP65	Default
HT7000D3V0	0-10V	±0.3℃@25℃	0~50℃	IP65	Default
HT7000D3C0	4-20mA	±0.3℃@25℃	0~50℃	IP65	Default
HT7000W3V0	0-10V	±0.3℃@25℃	0~50℃	IP65	Default
HT7000W3C0	4-20mA	±0.3℃@25℃	0~50℃	IP65	Default
HT7000W1V0	0-10V	±0.3℃@25℃	-40~60℃	IP65	Default
HT7000W1C0	4-20mA	±0.3℃@25℃	-40~60℃	IP65	Default
HT7000W4V0	0-10V	±0.3℃@25℃	-10~50℃	IP65	Default
HT7000W4C0	4-20mA	±0.3℃@25℃	-10~50℃	IP65	Default
HT7000I5V1	0-10V	±0.3℃@25℃	-40~150℃	IP65	65mm
HT7000I5C1	4-20mA	±0.3℃@25℃	-40~150℃	IP65	65mm
HT7000I5V2	0-10V	±0.3℃@25℃	-40~150℃	IP65	102mm
HT7000I5C2	4-20mA	±0.3℃@25℃	-40~150℃	IP65	102mm
HT7000I5V3	0-10V	±0.3℃@25℃	-40~150℃	IP65	152mm
HT7000I5C3	4-20mA	±0.3℃@25℃	-40~150℃	IP65	152mm
HT7000I5V4	0-10V	±0.3℃@25℃	-40~150℃	IP65	300mm
HT7000I5C4	4-20mA	±0.3℃@25℃	-40~150℃	IP65	300mm

Specification

Temperature sensing element	PT1000 (measure accuracy ±0.2K@25℃)
Temperature measurement range	Duct type: -20~80℃、-40~60℃, 0~50℃
	Wall mount: -40~60℃, 0~50℃, -10~50℃
	Immersion type: -40~150℃
Temperature accuracy	±0.3℃@25℃
Temperature output	0-10V
	4-20mA
IP Protection	IP65
Power supply	Voltage output: 15~35VDC/24VAC±20%; Current output:18.5~35VDC (RL=500Ω) , 8.5~35VDC (RL=0Ω)
Output Load	≤500Ω (current output) , ≥3kΩ (voltage output)
Closure	PC (UL94-V0)
Working environment	-40~70℃ &0~95%RH (No condensation)
Storage environment	-30~70℃ &0~95%RH (No condensation)
Certificate	CE

Temperature & Humidity Sensor and Transmitter

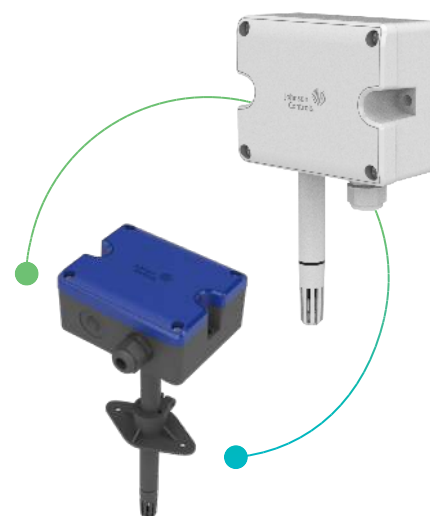
Johnson Controls HT7000 series temperature and humidity transmitter

Introduction

Johnson Controls HT7000 series temperature and humidity transmitter is designed for office building, hospital and other application, which is a basic sensor product can detect the ambient temperature and humidity 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



Naming Rule

Series	Installation Mode	Temperature Measurement Range	Output	Humidity Accuracy
HT7000	D: Duct Type	1: -40~60℃	V: Voltage output 0-10V	3: ±3%RH
	W: Wall Mount	2: -20~80℃	C: Current output 4-20mA	
		3: 0~50℃		
		4: -10~50℃		

Selection Table

Part Number	Output	Temperature Accuracy	Temperature Measurement Range	Humidity Accuracy	Humidity Measurement Range	IP Protection
HT7000D1V3	0-10V	±0.3℃@25℃	-40~60℃	±3%RH@ 25℃ & 20~80%RH	0-100%RH	IP65
HT7000D1C3	4-20mA	±0.3℃@25℃	-40~60℃	±3%RH@ 25℃ & 20~80%RH	0-100%RH	IP65
HT7000D2V3	0-10V	±0.3℃@25℃	-20~80℃	±3%RH@ 25℃ & 20~80%RH	0-100%RH	IP65
HT7000D2C3	4-20mA	±0.3℃@25℃	-20~80℃	±3%RH@ 25℃ & 20~80%RH	0-100%RH	IP65
HT7000D3V3	0-10V	±0.3℃@25℃	0~50℃	±3%RH@ 25℃ & 20~80%RH	0-100%RH	IP65
HT7000D3C3	4-20mA	±0.3℃@25℃	0~50℃	±3%RH@ 25℃ & 20~80%RH	0-100%RH	IP65
HT7000W1V3	0-10V	±0.3℃@25℃	-40~60℃	±3%RH@ 25℃ & 20~80%RH	0-100%RH	IP65
HT7000W1C3	4-20mA	±0.3℃@25℃	-40~60℃	±3%RH@ 25℃ & 20~80%RH	0-100%RH	IP65
HT7000W3V3	0-10V	±0.3℃@25℃	0~50℃	±3%RH@ 25℃ & 20~80%RH	0-100%RH	IP65
HT7000W3C3	4-20mA	±0.3℃@25℃	0~50℃	±3%RH@ 25℃ & 20~80%RH	0-100%RH	IP65
HT7000W4V3	0-10V	±0.3℃@25℃	-10~50℃	±3%RH@ 25℃ & 20~80%RH	0-100%RH	IP65
HT7000W4C3	4-20mA	±0.3℃@25℃	-10~50℃	±3%RH@ 25℃ & 20~80%RH	0-100%RH	IP65

Temperature & Humidity Sensor and Transmitter

Specification

Temperature sensing element	PT1000 (measure accuracy $\pm 0.2K@25^{\circ}C$)
Humidity sensing element	Capacitor
Temperature measurement range	Duct type: $-40\sim 60^{\circ}C$, $-20\sim 80^{\circ}C$, $0\sim 50^{\circ}C$ Wall mount: $-40\sim 60^{\circ}C$, $0\sim 50^{\circ}C$, $-10\sim 50^{\circ}C$
Temperature accuracy	$\pm 0.3^{\circ}C@25^{\circ}C$
Temperature output	0-10V 4-20mA
Humidity measurement range	0-100%RH
Humidity accuracy	$\pm 3\%RH$ ($25^{\circ}C$, 20-80%RH)
Humidity output	0-10V, 4-20mA
IP Protection	IP65
Power supply	Voltage output: $15\sim 35VDC/24VAC \pm 20\%$; Current output: $18.5\sim 35VDC$ ($RL=500\Omega$), $8.5\sim 35VDC$ ($RL=0\Omega$)
Output Load	$\leq 500\Omega$ (current output), $\geq 3k\Omega$ (voltage output)
Closure	PC (UL94-V0)
Working environment	$-20\sim 60^{\circ}C$ & 5-95%RH (No condensation)
Storage environment	$-20\sim 60^{\circ}C$ & 5-95%RH (No condensation)
Certificate	CE





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