

HTX62x Series

Humidity, Temperature, Dewpoint, Absolute OR Enthalpy

FEATURES

- Applied for MEMS technology
- Compact & Slim size
- Digital Calibration
- Max.,Min. Value Display
- Error Display
- IP65 Water-proof
- Embedded RS485(Modbus)

APPLICATIONS

- HVAC
- Cleanroom
- Dehumidifier
- Humidifier
- Precision Air-Conditionor
- Building Automation
- Garden(Farm)
- Lab/Test Room
- Museum
- Industrial
- Semi-Conductor
- Train
- Pharmacy
- Factory
- Printing
- Enviroment
- Weather monitoring
- Road,way
- Base station

HUMITRON® HTX62x series is an ideal product line for precise measuring of temperature, humidity and dew point temperature at various industrial applications. Also, it is possible to connect with upper system directly through embedded RS485 communication function and to show temperature and humidity on its own LED display at the same time. Snap on-off type housing and plug-in terminal is applied for easy installation and wiring. Users can choose wall type, duct type or remote probe type according to their needs.

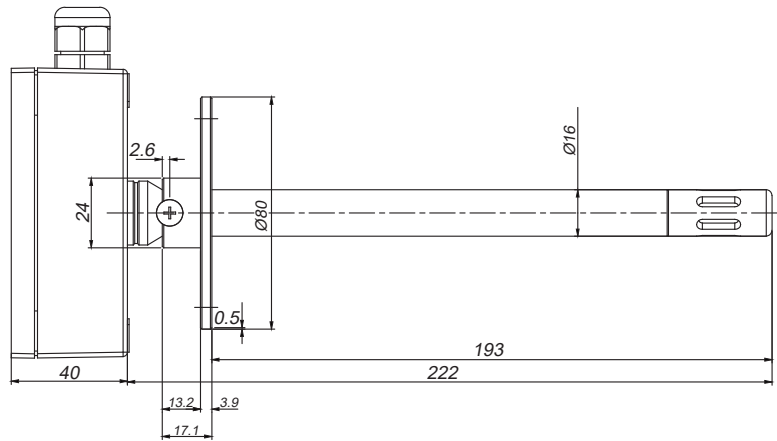
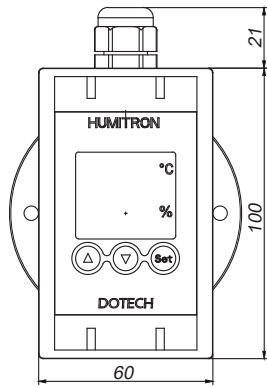


SPECIFICATIONS

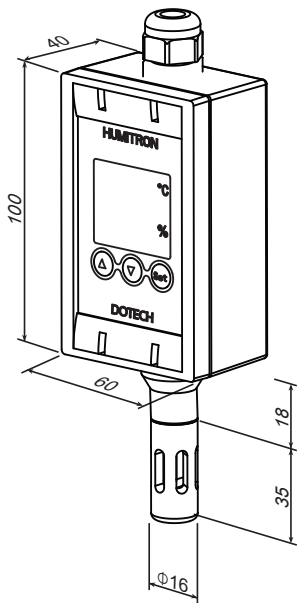
Item	Model	HTX62x(W/D/R)
Power Supply		DC24V, Max 0.2A
Dimension(W×H×Dmm)		60×100×40, Cable Grand and Probe exclusion
Communication Method		Modbus RTU/ASCII, 2400, 4800, 9600, 19200, 38400 BPS
Cable Grand		PG9 (Bright Black, Anti-Drag, 3...6.5mm)
Wiring method		4-Pin X 2ea Terminal Block, 14...22AWG
Storage Condition		-25...60°C, Non-condensation
Operation Condition		-20...55°C 0...95%RH
Housing		ABS, Water-proof(IP65)
Weight		60g
Self Diagnostic		Sensor Fault Select
Humidity	Range	0...100%RH(Non-condensation)
	Accuracy	±3.0%RH
	Repeatability	±0.1%RH
	Response	Max. 10sec. : 1/e (63%) at 25°C, 1m/s air
	Output	4...20mA
Temoerature	Range	-20...80°C
	Accuracy	25°C @ ±0.3°C
	Repeatability	±0.1°C
	Response	5...30sec., 1/e (63%)
	Output	4...20mA (-20...80°C : Output Range Settable)
Dewpoint	Range	-40...60°C (Dewpoint)
	Response	Max. 10sec. : 1/e (63%) at 25°C, 1m/s air
	Output	4...20mA
Absolute humidity	Range	0...290 g/m ³
	Accuracy	±3.0%RH
	Response	5...30sec., 1/e (63%)
	Output	4...20mA
Enthalpy	Range	-20...1500kj/kg
	Response	5...30sec., 1/e (63%)
	Output	4...20mA



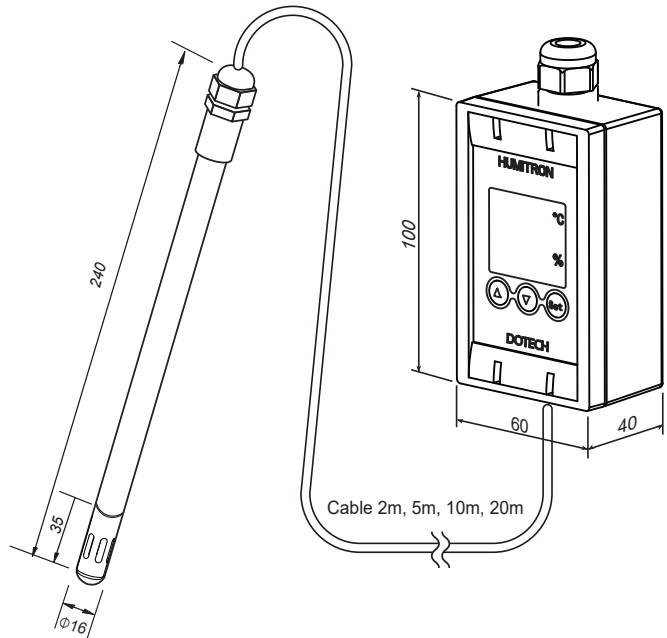
Full Dimensions of each types



<HTX62xD DUCT MOUNT >

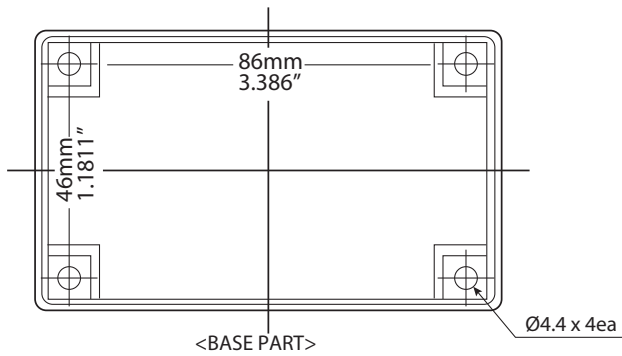


<HTX62xW WALL MOUNT>



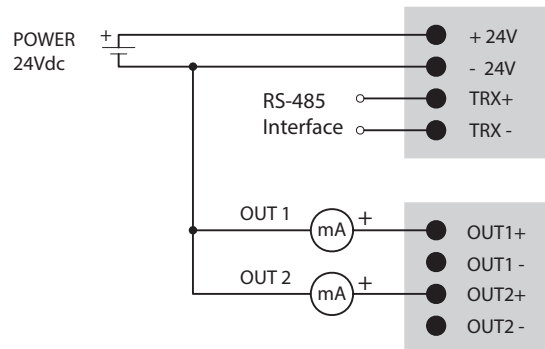
<HTX62xR REMOTE PROBE >

Housing / Mounting Dimension



<BASE PART>

Connection Diagram



Ordering Guide

Basic No.	Series	Mount	Type	Cable length	Description
HTX					HUMITRON HTX Series Transmitters
	62C				OUT1 : Humidity, OUT2 : Temperature
	62D				OUT1 : Dewpoint, OUT2 : Temperature
	62T				OUT1 : -, OUT2 : Temperature
	62B				OUT1 : Absolute humidity, OUT2 : Temperature
	62E				OUT1 : Enthalpy, OUT2 : Temperature
	62A				OUT1 : Absolute humidity, OUT2 : Enthalpy
	62U				OUT1 : Humidity, OUT2 : Temperature, Wet-bulb : Display
		W			Wall Mount Type
		D			Duct Mount Type
		R			Remote Probe Type (2m, 5m, 10m, 20m)
			00		Display Only
			01		RS485 MODBUS Communication Function
			10		4...20mA Output Function
			11		4...20mA Output & Communication Function

Parameter List

Item	Name Of Parameter	Description	Setting Range	Initial Value	User Setting Value
1	<i>r.oFS</i>	Measure humidity offset value	-50.0 ... +50.0 %	0.00 %	
2	<i>r.SCH</i>	Max. humidity of Transmission output Scale (at 20mA)	0 ... 100%	100%	Humidity
3	<i>r.SCL</i>	Min. humidity of Transmission output Scale (at 4mA)	0 ... 100%	100%	
4	<i>r.OoF</i>	Offset humidity of Transmission output	-3.00 ... 3.00 mA	0.00 mA	
5	<i>t.oFS</i>	Measure temperature offset value	-50.0 ... +50.0°C	0.0°C	
6	<i>t.SCH</i>	Max. temperature of Transmission output Scale (at 20mA)	-40 ... 120°C	80°C	Temperature
7	<i>t.SCL</i>	Min. temperature of Transmission output Scale (at 4mA)	-40 ... 120°C	-20°C	
8	<i>t.OoF</i>	Offset temperature of Transmission output	-3.00 ... +3.00 mA	0.00 mA	
9	<i>d.oFS</i>	Measure dewpoint offset value	-50.0 ... +50.0 %	0.00 %	
10	<i>d.SCH</i>	Max. dewpoint of Transmission output Scale (at 20mA)	-40 ... 120°C	60°C	Dewpoint
11	<i>d.SCL</i>	Min. dewpoint of Transmission output Scale (at 4mA)	-40 ... 120°C	-40°C	
12	<i>d.OoF</i>	Offset dewpoint of Transmission output	-3.00 ... +3.00 mA	0.00 mA	
13	<i>R.oFS</i>	Measure Absolute humidity offset value	0 ... 100.0 g/m ³	0.0 g/m ³	
14	<i>R.SCH</i>	Max. Absolute humidity of Transmission output Scale (at 20mA)	0 ... 250 g/m ³	250 g/m ³	Absolute humidity
15	<i>R.SCL</i>	Min. Absolute humidity of Transmission output Scale (at 4mA)	0 ... 250 g/m ³	0 g/m ³	
16	<i>R.OoF</i>	Offset Absolute humidity of Transmission output	-3.00 ... +3.00 mA	0.00 mA	
17	<i>E.oFS</i>	Measure enthalpy offset value	-20.0 ... +100.0 kJ/kg	0.0 kJ/kg	
18	<i>E.SCH</i>	Max. enthalpy of Transmission output Scale (at 20mA)	-20 ... 800 kJ/kg	800 kJ/kg	Enthalpy
19	<i>E.SCL</i>	Min. enthalpy of Transmission output Scale (at 4mA)	-20 ... 800 kJ/kg	-20 kJ/kg	
20	<i>E.OoF</i>	Offset enthalpy of Transmission output	-3.00 ... +3.00 mA	0.00 mA	
21	<i>E.AdR</i>	Address for End Address	1 ... 64	1	
22	<i>E.Pro</i>	Protocol Mode	0 : MODBUS RTU 1 : MODBUS RTU2 2 : MODBUS RTU3	0	Communication
23	<i>E.bPS</i>	Baud-rate	0 : 2400 1 : 4800 2 : 9600 3 : 19200 4 : 38400	2 : 9600	
24	<i>E.Pri</i>	Parity	0 : None 1 : Even 2 : Odd	0 : None	
25	<i>E.StP</i>	Stop bit	1 : 1-bit 2 : 2-bit	1 : 1-bit	
26	<i>E.dLn</i>	Data bit	7 : 7-bit 8 : 8-bit(fixed)	8 : 8-bit	
27	<i>n.dIS</i>	Display period	0 ... 5.0 sec	0.5 sec	

Operation Sequence and Parameter map

o Set display mode

Pushing for 3sec+

23.2 °C
58.2 %
Display Temp. Humidity

12.32 °C
15.82 %
Retrans. Display
(Unit : mA)

-dP - °C
10.2 %
Display Dewpoint
(Unit : °C)

r.nA4 °C
70.2 %
Max. Humidity
(Unit : %) Reset

r.n 1n °C
38.2 %
Min. Humidity
(Unit : %) Reset

t.nA4 °C
38.2 %
Max. Temp.
(Unit : °C) Reset

t.n 1n °C
10.2 %
Min. Temp.
(Unit : °C) Reset

Prno °C
00.30 %
Display Program No.

o Set point change mode

Pushing for 3sec+

r.oFS Cal. of Humidity
r.SCH Max. Humidity Range
r.SCL Min. Humidity Range
r.OoF Cal. of Humidity Retrans

t.oFS Cal. of Temp.
t.SCH Max. Temp. Range
t.SCL Min. Temp. Range
t.OoF Cal. of Temp. Retrans

CAdr Communication ID set
CPro Protocol Method
CbPS BPS set
CPr1 Parity bit set
CStP Stop bit set
CdLn Data length set

n.d 15 Display interval

Pushing for 3sec. +