

HTX520C Series

High-end Thermo hygro meter & transmitters with RS485

FEATURES

- Self Display
- Compact & Slim size
- Digital Calibration
- Max.,Min. Value Display
- Error Display

APPLICATIONS

- HVAC
 - Clenroom
 - Dehumidifier
 - Humidifier
 - Constant temperature & humidity unit
 - Building Automation
 - Garden(Farm)
 - Lab/Test Room
 - Museum / Exhibition hall
- Industrial (Production / storage)
 - Semi-Conductor
 - Electric Railway / Train
 - Pharmacy, Food
 - Factory Automation
 - Printing
- Enviromental monitoring system
 - Weather
 - Road,way
 - Base station

HUMITRON® HTD500 series is an ultra-precise temperature & humidity transmitter for environmental measuring which integrates micro processor with a digital sensor.

- Support RS485, MOD-BUS PROTOCOL
- MOD-BUS RTU MODE
- Support exclusive software
- State display, logging function etc



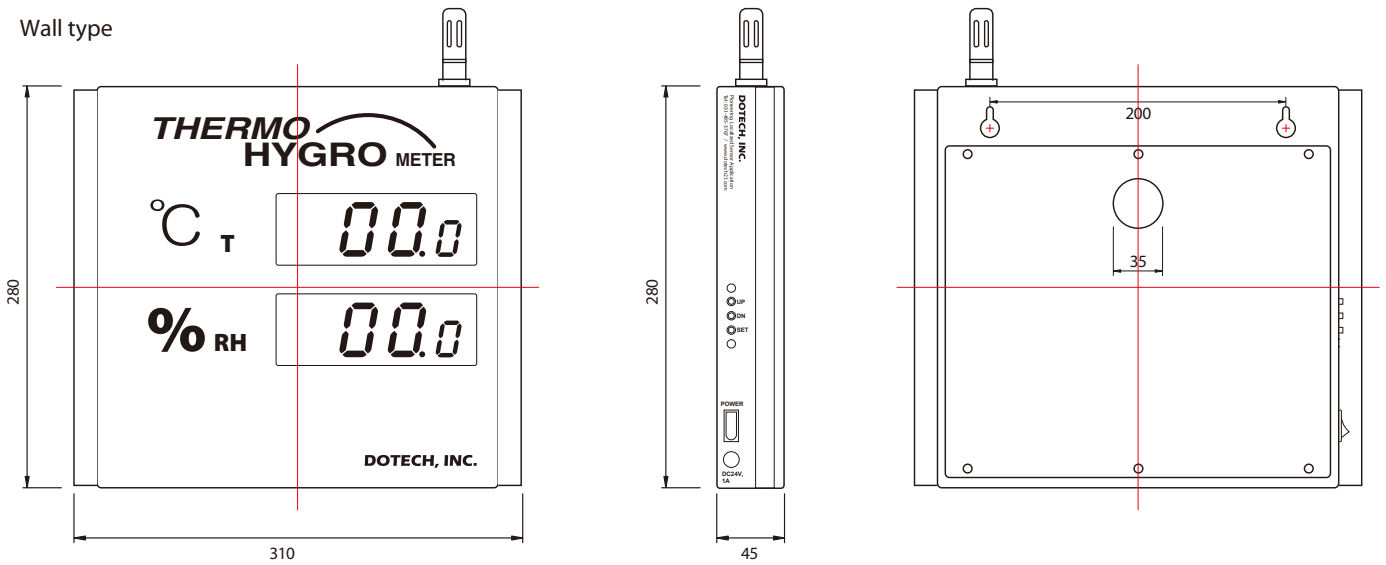
SPECIFICATIONS

Item	Model	HTD520C (W/R)	HTD530C (W/R)
Humidity	Range	0...100% (Non-Condensation)	
	Accuracy	± 2.0%RH	± 3.0%RH(20 ... 80%RH)
	Repeatability	± 0.1%RH	
	Response	Max. 15sec.	
	Output	4 ... 20mA	
Temperature	Range	-20 ... 120 °C	
	Accuracy	25°C @ ± 0.3°C	25°C @ ± 0.5°C
	Repeatability	± 0.1 °C	
	Response	Max. 30sec.	
	Output	4 ... 20mA	
Self Diagnostic		Sensor Fault Detect, Communication Fault Detect	
Power Supply		DC24V, Max 0.2A	
Dimension(W×H×Dmm)		310×280×45, Cablegrand & Probe exclusion	
BPS , Protocol		600,1200,4800,9600,19200,38400 BPS / MODBUS-RTU	
Cable Grand		PG9 (Bright Black, Anti-Drag, 3 ... 6.5mm)	
Wiring Method		3-pin (Communication) , 4-pin(4 ... 20mA), 2-pin (external input power), Terminal Block, 14 ... 22AWG	
Storage Condition		-25 ... 50°C, Non-condensation	
Operation Condition		-20 ... 50°C, 10 ... 90%RH	
Housing		STEEL/2.1Kg	

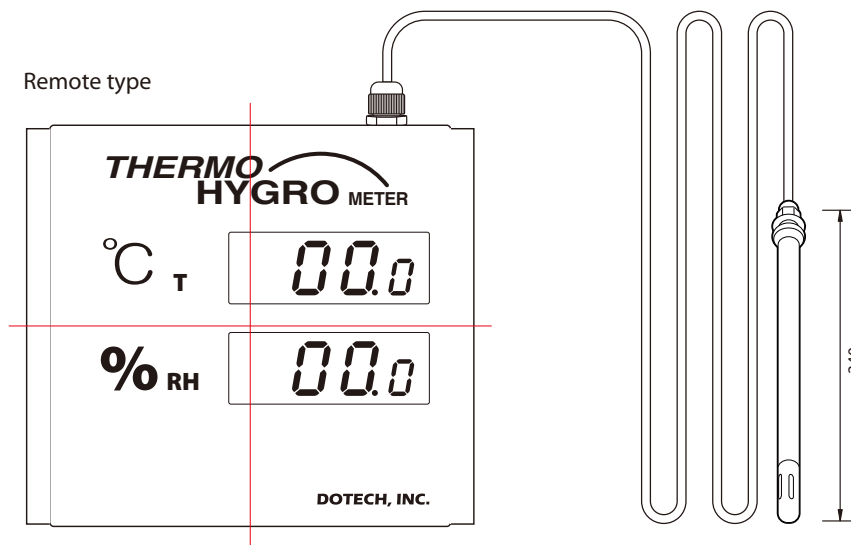


Mounting Dimension

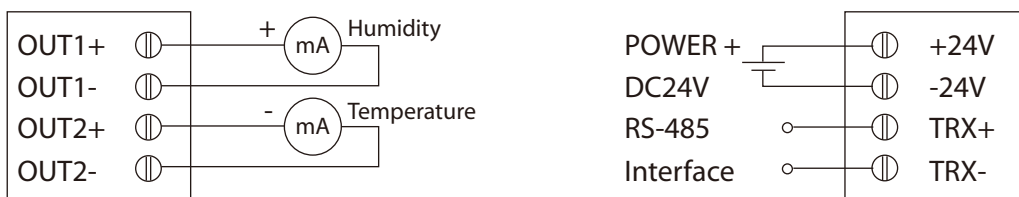
Wall type



Remote type



Connection Diagram



Ordering Guide

Basic No.	Series	Mount	Type	Description
HTX				HUMITRON HTX Series Transmitters
	520C			RH : $\pm 2.0\%$, Temp : $\pm 0.3^\circ\text{C}$
	530C			RH : $\pm 3.0\%$, Temp : $\pm 0.8^\circ\text{C}$
		W		Wall Mount Type
		R		Remote Probe Type (Cable length : 3m, 5m, 10m, 20m)
			00	Display Only
			11	4 ... 20mA Output & Communication Function

Parameter List

Item	Name Of Parameter	Name Of Parameter	Setting Range (Description)	Initial Value	User Setting Value
1	<i>r.oFS</i>	Measure humidity offset value	-10.0 ... +10.0 %	0.0 %	
2	<i>r.SCH</i>	Max. humidity of Transmission output Scale (at 20mA)	0 ... 100 %	100 %	
3	<i>r.SCL</i>	Min. humidity of Transmission output Scale (at 4mA)	0 ... 100 %	0 %	
4	<i>r.DoF</i>	Offset humidity of Transmission output	-3.00 ... + 3.00 mA	0.00 mA	
5	<i>t.oFS</i>	Measure temperature offset value	-10.0 ... +10.0 °C	0.0 °C	
6	<i>t.SCH</i>	Max. temperature of Transmission output Scale (at 20mA)	-40 ... 120 °C	70 °C	
7	<i>t.SCL</i>	Min. temperature of Transmission output Scale (at 4mA)	-40 ... 120 °C	-30 °C	
8	<i>t.DoF</i>	Offset temperature of Transmission output	-3.00 ... + 3.00 mA	0.00 mA	
9	<i>C.Adr</i>	Address for End Address	1 ... 64	1	
10	<i>C.Pro</i>	Protocol Mode	0 : MODBUS RTU 1 : MODBUS RTU2 2 : MODBUS RTU3	0	
11	<i>C.bPS</i>	Baud-rate	0 : 600, 1 : 1200 2 : 2400, 3 : 4800 4 : 9600, 5 : 19200 6 : 38400	4 : 9600 bps	
12	<i>C.Pr1</i>	Parity	0 : None 1 : Even 2 : Odd	0 : None	
13	<i>C.StP</i>	Stop bit	1 : 1-bit 2 : 2-bit	1 : 1-bit	
14	<i>C.dLn</i>	Data bit	7 : 7-bit 8 : 8-bit (fixed)	8 : 8-bit	

Operation Sequence and Parameter map

o Set display mode

▲ Pushing for 3Sec. + **Set**

23.2 °C
58.2 %
Display Temperature/Humidity

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

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

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

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

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

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

Prno °C
1 130 %
Program No.Display

o Set point chage mode

Set Pushing for 3Sec.

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

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

CAdr Communication ID
CPro Protocol Method
CbPS BPS Set
CPr 1 Parity bit set
CStP Stop bit set
CdLn Data length set

n.d 15 Display interval

Set

Set Pushing for 3Sec.