

HTD500C 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

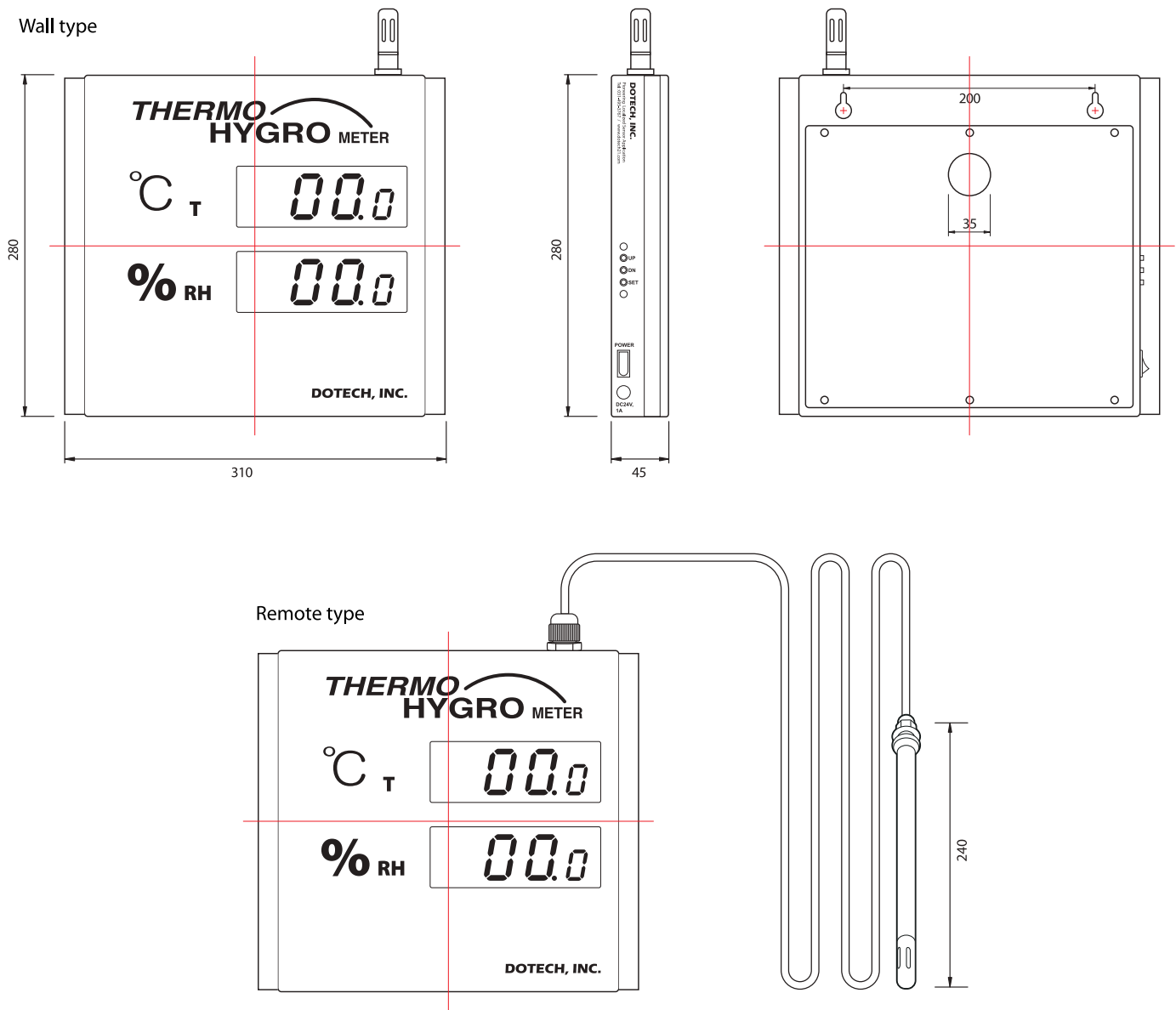


SPECIFICATIONS

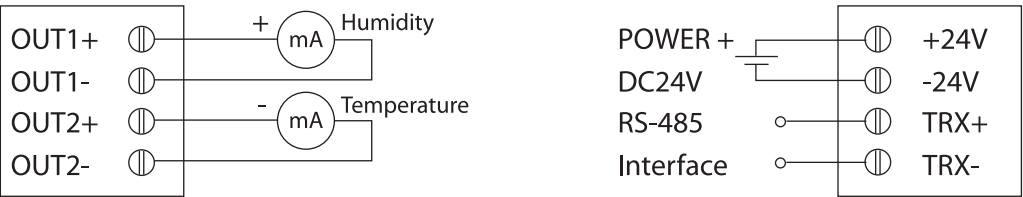
Item		Model	HTD520C (W/R)	HTD530C (W/R)
Humidity	Range	0...100% (Non-Condensation)		
	Accuracy	± 2.0%RH		± 3.0%RH(20 ... 80%RH)
	Repeatability	± 0.1%RH		
	Response	Max. 15sec.		
	Output	4 ... 20mA		
Temperature	Range	-40 ... 120 °C		
	Accuracy	25°C @ ± 0.3°C		25°C @ ± 0.5°C
	Repeatability	± 0.1 °C		
	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, Cable grand & 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



Connection Diagram



Ordering Guide

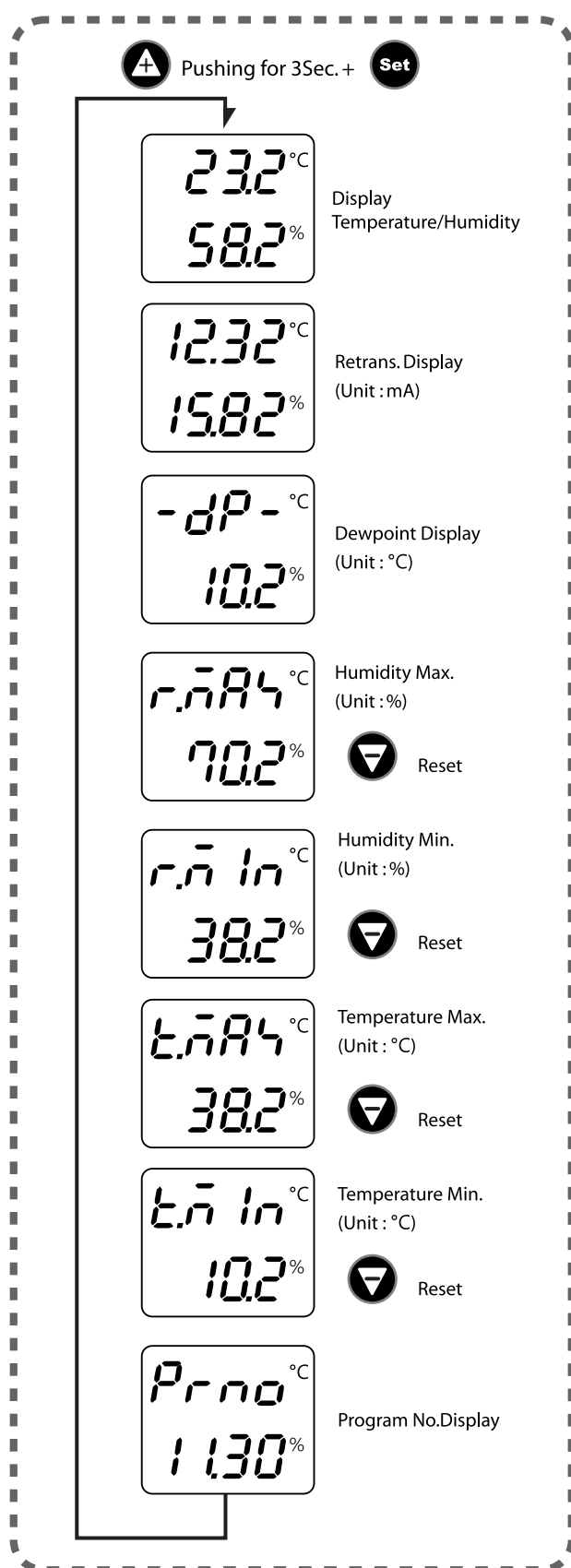
Basic No.	Series	Mount	Type	Description
HTD				HUMITRON HTD Series Transmitters
	520C			RH : $\pm 2.0\%$, Temp : $\pm 0.3\text{ }^{\circ}\text{C}$
	530C			RH : $\pm 3.0\%$, Temp : $\pm 0.8\text{ }^{\circ}\text{C}$
		W		Wall Mount Type
		R		Remote Probe Type (Cable length : 3m, 5m, 10m, 20m)
			00	Display Only
			10	4 ... 20mA Output Function
			01	RS-485 MODBUS Communication Function
			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.oF5</i>	Measure humidity offset value	-10.0 ... +10.0 %	0.0 %	
2	<i>r.5CH</i>	Max. humidity of Transmission output Scale (at 20mA)	0 ... 100 %	100 %	
3	<i>r.5CL</i>	Min. humidity of Transmission output Scale (at 4mA)	0 ... 100 %	0 %	
4	<i>r.0oF</i>	Offset humidity of Transmission output	-3.00 ... + 3.00 mA	0.00 mA	
5	<i>t.oF5</i>	Measure temperature offset value	-10.0 ... +10.0 $^{\circ}\text{C}$	0.0 $^{\circ}\text{C}$	
6	<i>t.5CH</i>	Max. temperature of Transmission output Scale (at 20mA)	-40 ... 120 $^{\circ}\text{C}$	80 $^{\circ}\text{C}$	
7	<i>t.5CL</i>	Min. temperature of Transmission output Scale (at 4mA)	-40 ... 120 $^{\circ}\text{C}$	-20 $^{\circ}\text{C}$	
8	<i>t.0oF</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



o Set point chage mode

