

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



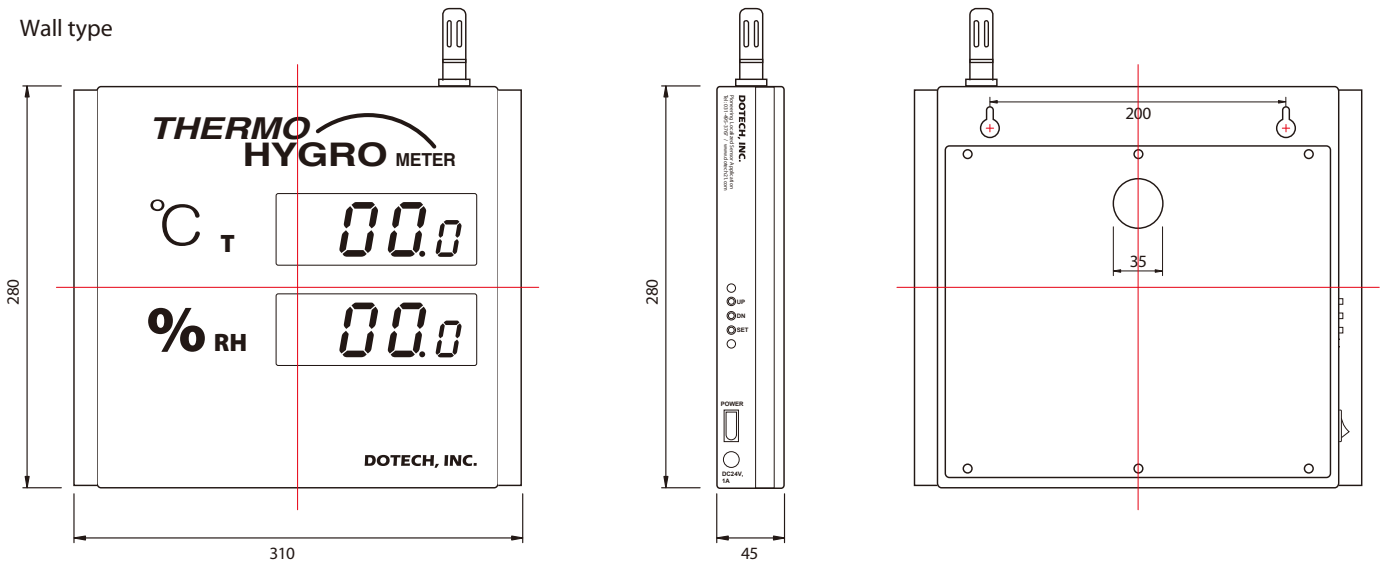
SPECIFICATIONS

| 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 | |

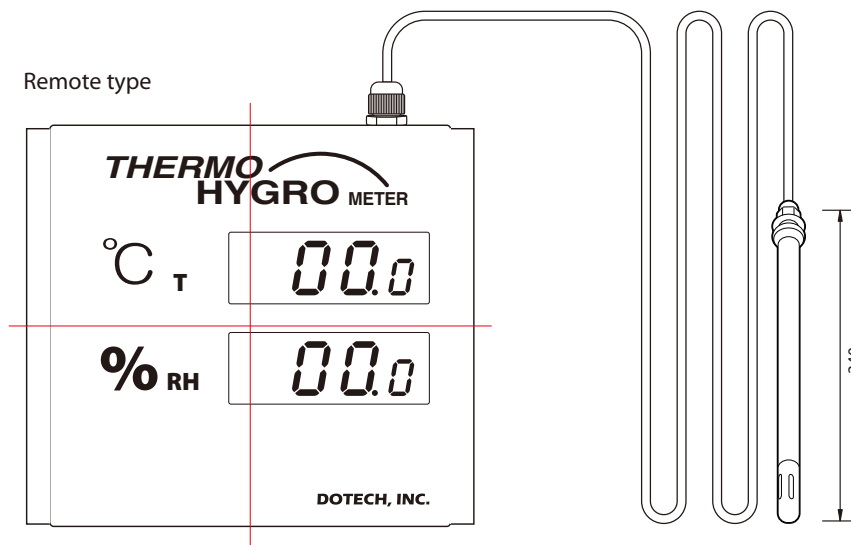


Mounting Dimension

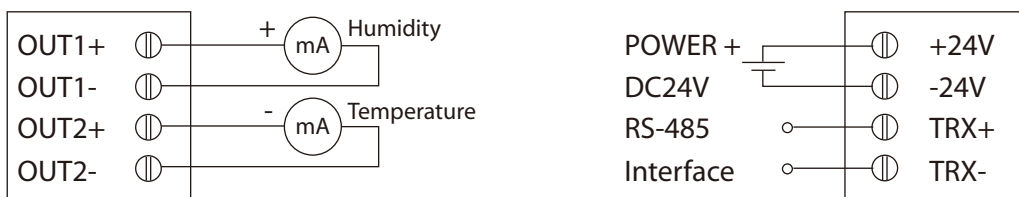
Wall type



Remote type



Connection Diagram



Ordering Guide

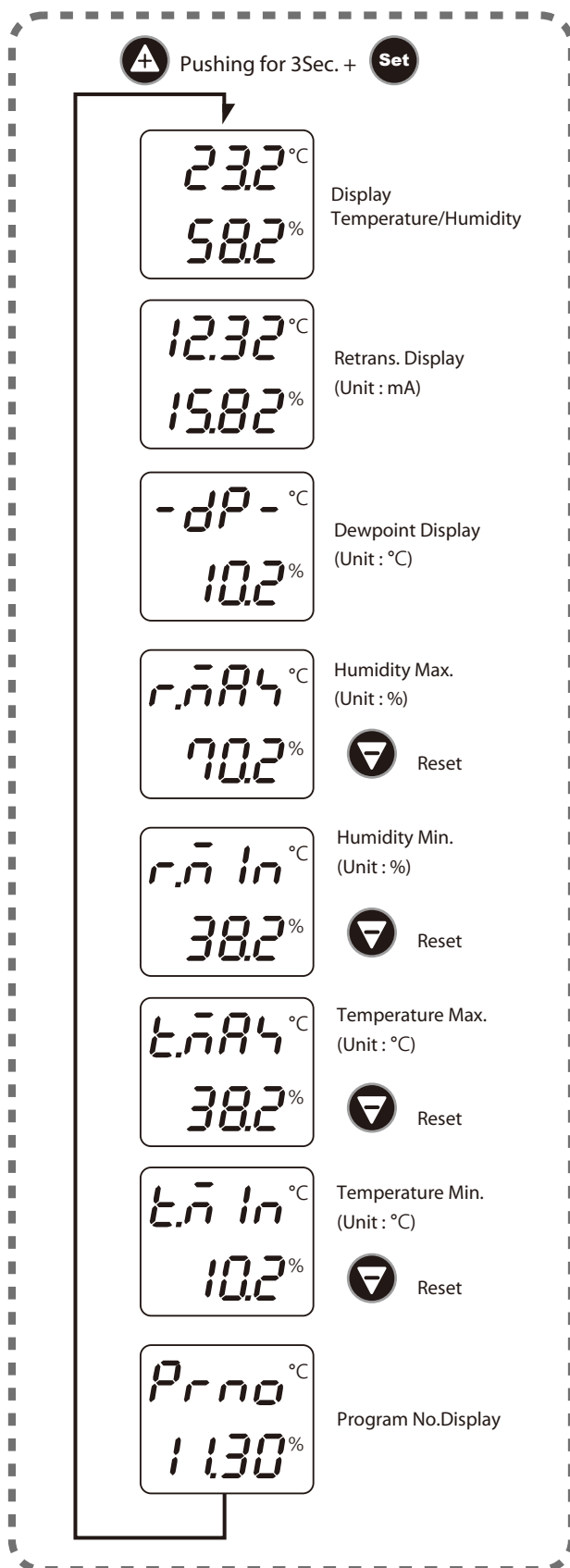
| Basic No. | Series | Mount | Type | Description |
|-----------|--------|-------|------|---|
| HTX | | | | HUMITRON HTX Series Transmitters |
| | 520C | | | RH : ±2.0%, Temp : ±0.3°C |
| | 530C | | | RH : ±3.0%, Temp : ±0.8°C |
| | | W | | Wall Mount Type |
| | | R | | Remote Probe Type (Cable length : 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



o Set point chage mode

