

HTX75C Series

Climate Control Temperature & Humidity Transmitter

FEATURES

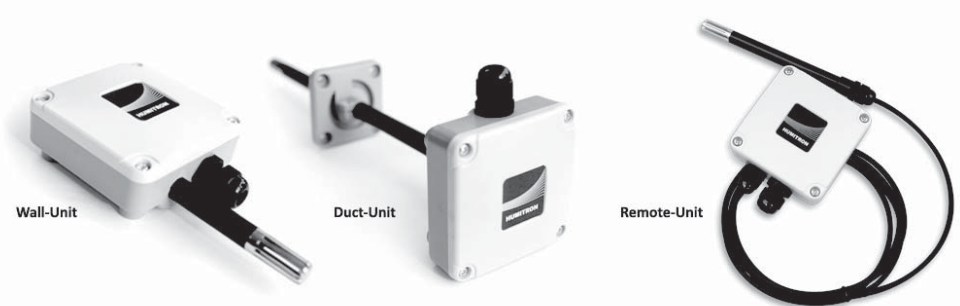
- RS485 Communication
- Up to 100 nodes can be connected
- High Accuracy & Safety
- Water-Proof Housing
- Compact & Slim Size
- Easy Installation

APPLICATIONS

- HVAC
 - Clenroom
 - Dehumidifier
 - Humidifier
 - Precision Air-Conditionor
 - Building Automation
 - Garden(Farm)
 - Lab/Test Room
 - Museum / Show Room
- Industrial (Production / Storage)
 - Semi-Conductor
 - Subway / Train
 - Pharmacy, Food
 - Factory Automation
 - Printing Factory
- Environmental Monitoring System
 - Weather monitoring
 - Road
 - Mobile Base Station

HUMITRON® HTX75C series is an economical model for the general climate controlling circumstance and makes it possible to measure the exact temperature and humidity. Also, HTX75C series can maintain longterm durability in the circumstance where is dusty and occurs constant air flow by applying stainless steel mesh filter. You can choose either duct mount type or wall mount type according to installed place or method.

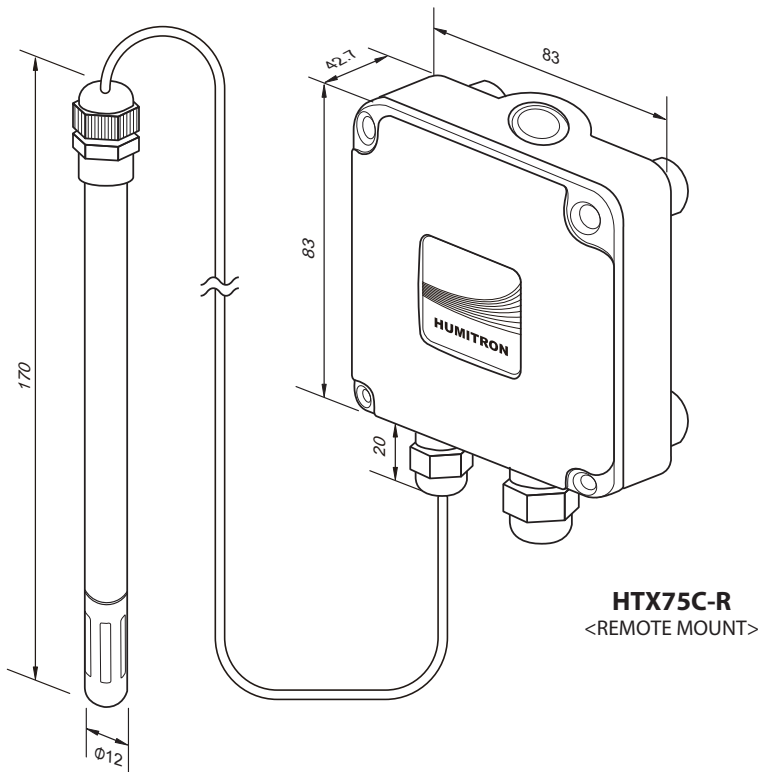
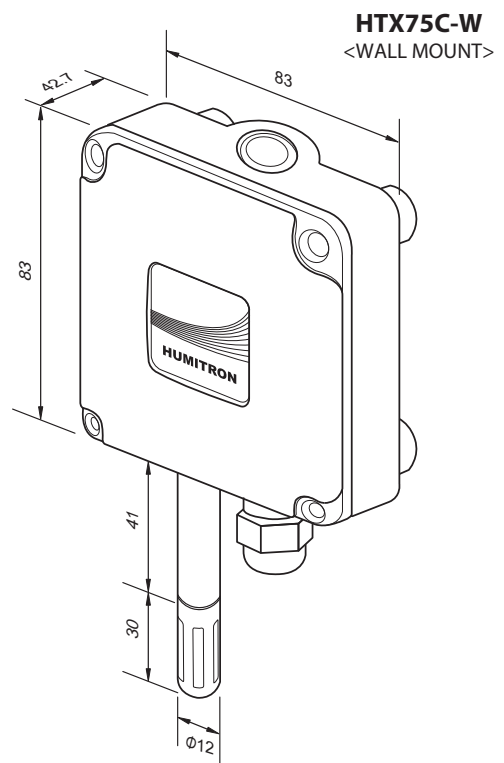
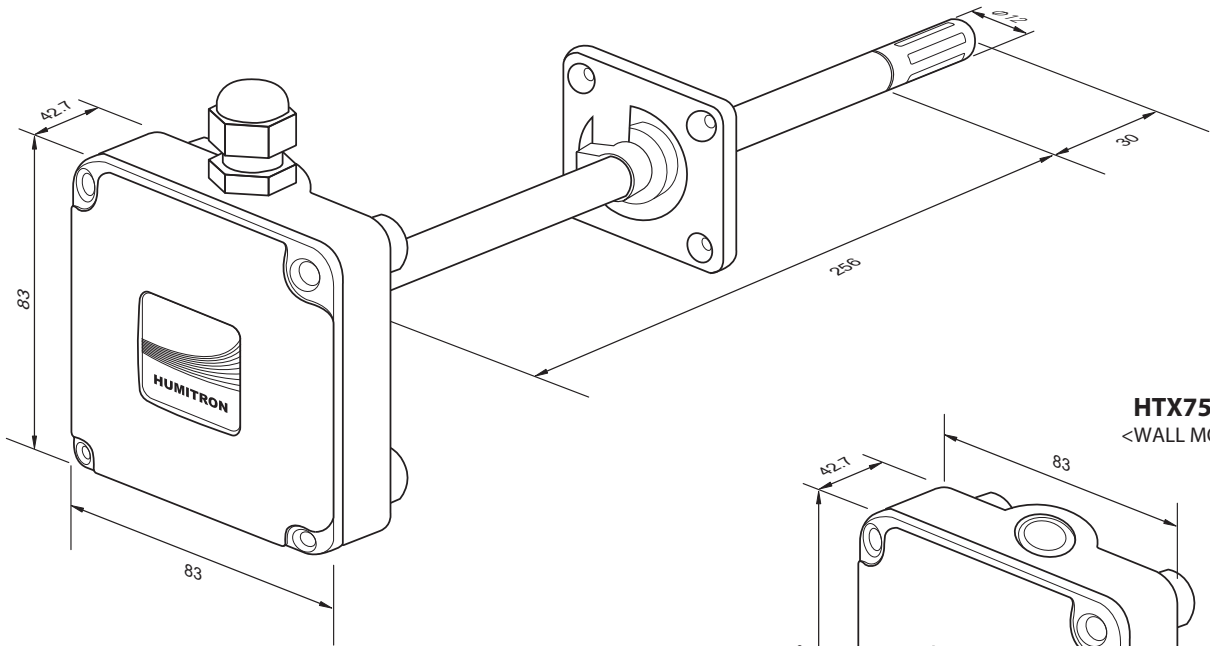
- **Water-Proof & Independent Structure**
 - Minimizing outside influences at high humid place
 - Removing self-heating error by isolation of fine heat at circuit part
- **Operational with Low Voltage (6 volts)**
 - Superior to long-distance transmission
 - Usable at high impedance
- **Choosing Metal Mesh Filter**
 - Excellence in sensor protection & high response speed
 - Removable structure for easy installation & maintenance
- **Basic for Humidity Measuring, Option for Temperature Measuring**
 - Cost Saving Effect
 - Minimization



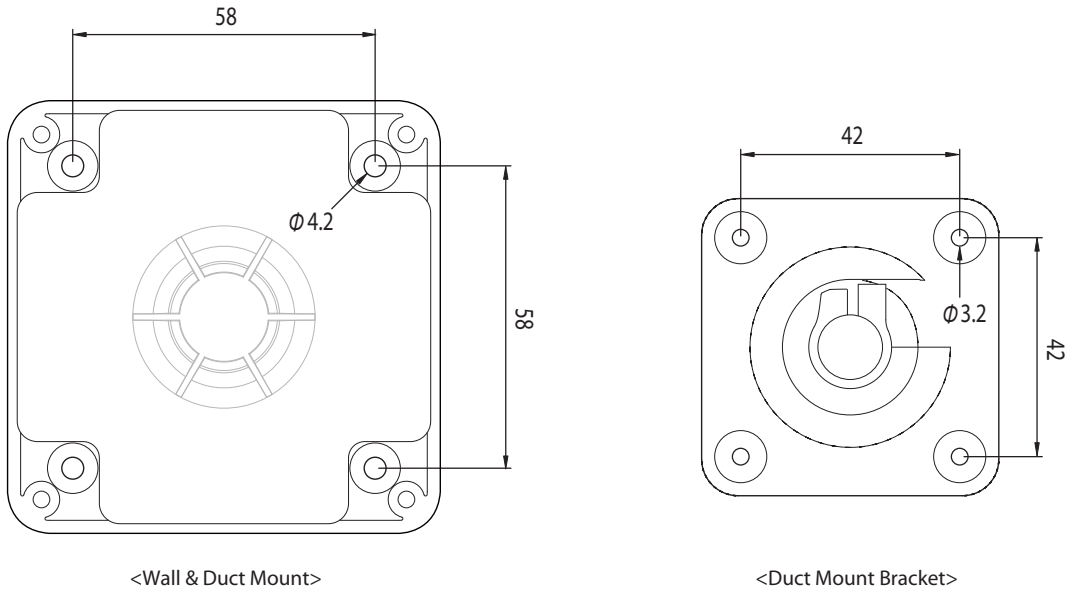
SPECIFICATIONS

Item	Model	HTX75C
Humidity	Range	0 ~ 100 %RH (Non-Condensation)
	Accuracy	±2.0 %RH (@25°C, 20~80%RH)
	Linearity	<2.0 %RH
	Repetitiveness	±0.2 %RH
	Response	Max 15sec (τ63%, 1m/sec air flow)
Temperature	Range	-30 ~ 80 °C
	Accuracy	±0.3 °C
	Repetitiveness	±0.1 °C
	Response	Max 20sec (τ63%)
Dew point Temp.	Range	-40...60°C
Communication		RS485 Modbus RTU
Sensor Protection		ABS + Mesh-Filter
Supplying Power		6...30Vdc (12Vdc recommended)
Size(W×H×Dmm)		83 x 83 x 42.7 (Cable gland, probe/filter is out of scope)
Cable Gland		PG9 (Black, Anti-Drag, 3 ... 6.5mm)
Wiring Type		4pins Terminal Block, 14 ... 22AWG
Housing		ABS, Water-proof Structure (IP65)
Weight		Wall Type : 105g / Duct Type : 134.4g

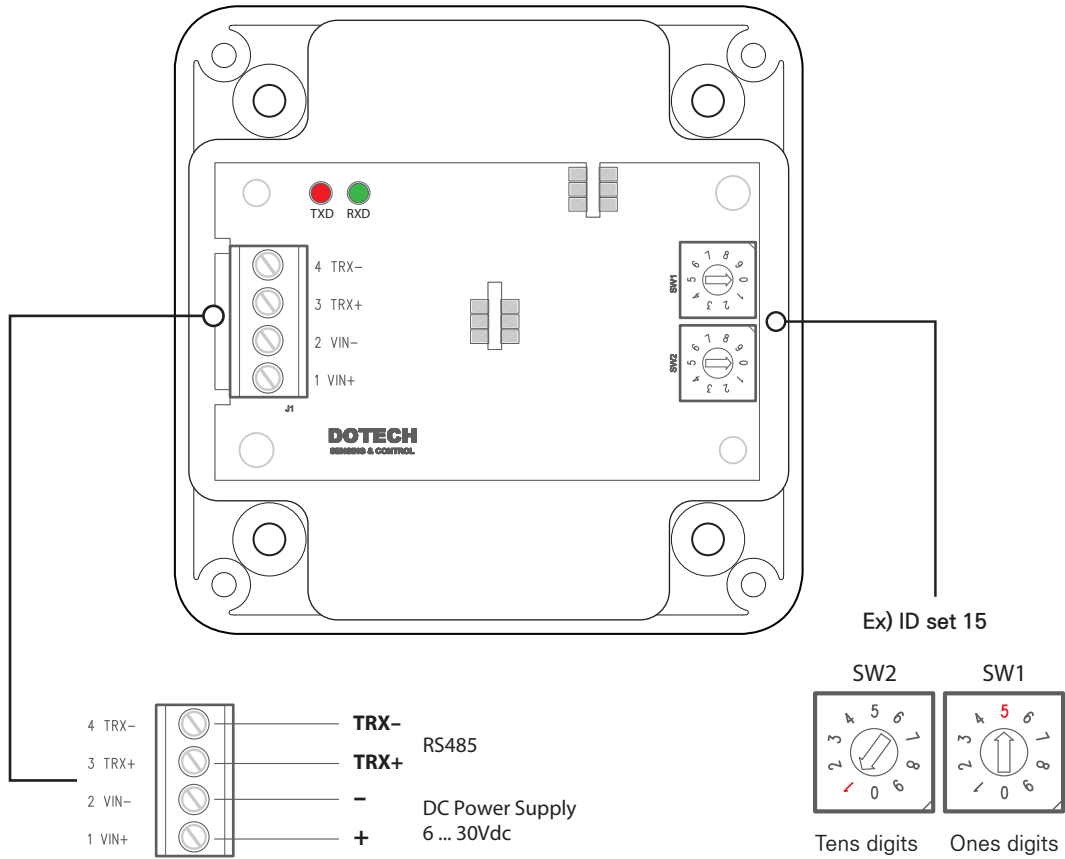
Housing Dimension(mm)



Mounting Dimension(mm)



Connection Diagram



Ordering Guide

HTX75C - ① - ②	Description
W	Wall Mount Type (Room)
D	Duct Mount Type
R	Remote Probe Type
HT	Humidity, Temperature, Dew point Temperature
T	Temperature
A	Humidity, Temperature, Dew point Temperature, Enthalpy

Communications

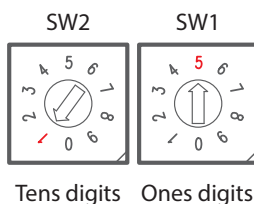
Communications method	RS485
Protocol Type	Modbus RTU
Baud-rate	9600 bps
Data,Parity,Stop	8 data, None, 1 stop
Poll interval	100msec

Protocol

Address	Title	Unit	Type	Size(Word)	Real Data	MMI	Scale
40001	Humidity correction values	%RH	Analog	INT16	-10.0 ~ 10.0	-100 ~ 100	X10
40005	Temp. correction values	°C	Analog	INT16	-10.0 ~ 10.0	-100 ~ 100	X10
40022	Current Humidity(PV)	%RH	Analog	INT16	0.0 ~ 100.0	0 ~ 1000	X10
40023	Current Temperature(PV)	°C	Analog	INT16	-30.0 ~ 80.0	-300 ~ 800	X10
40024	Current Dew point Temp.(PV)	°C	Analog	INT16	-40.0 ~ 60.0	-400 ~ 600	X10
40027	Current Enthalpy(PV)	kJ/kg	Analog	INT16	0 ~ 2200	0 ~ 22000	X10

Method RS485 Communication ID Settings

Ex) ID set 15



Recommendations for communication line

Use of industrial communication cables is recommended and wire communication line with equivalent in LG LIREV-AMESB AWG22, BELDEN 9841(2), FTP, UTP (in case of installing a number of channels at the same time).