

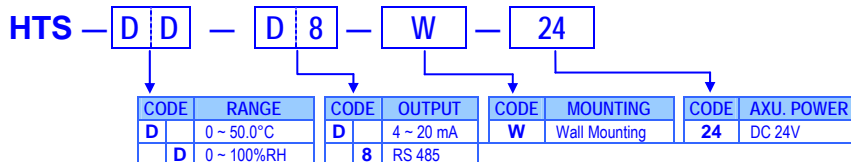
# HTS HUMIDITY & TEMPERATURE Transmitter

## FEATURE

- Accuracy: Temperature :  $\pm 0.3^{\circ}\text{C}$ ; Humidity :  $\pm 2\%$
- Dual display for  $0.0\sim 50.0^{\circ}\text{C}$  and  $0\sim 100\%\text{RH}$
- RS 485 Modbus RTU mode in standard
- Dual current output for Temperature & Humidity
- Low output ripple
- High stability & low cost
- CE approved



## ORDER INFORMATION



## SPECIFICATION

Measuring Range	Output	Load Resistance
Temperature 0 ~ 50.0 °C	4 ~ 20 mA (4-Wires)	≤ 500Ω
Humidity 0 ~ 100 %RH	4 ~ 20 mA (4-Wires)	
	RS 485 Modbus RTU Mode	

### Accuracy (at 25 °C):

Temperature:  $\leq \pm 0.3^{\circ}\text{C}$  at  $25 \pm 20^{\circ}\text{C}$ ;  
 Humidity:  $\leq \pm 2\%$  RH between 10~90%RH  
 $\leq \pm 4\%$  RH at 0~10% and 90~100%

### Sensing Elements:

Temperature: RTD Pt100Q, DIN43760  
 Humidity: Thin-film capacitor

### Response time:

Temperature:  $\leq 10$  sec.(still air)  
 Humidity:  $\leq 4$  sec. (still air)

### Span adjustment:

Digital compensation

### Zero adjustment:

Digital compensation

### Display

#### LCD:

123x123 pixel LCD with backlight  
 Temperature reading:  $0.0\sim 50.0^{\circ}\text{C}$   
 Humidity reading:  $0\sim 100\%\text{RH}$   
 Modbus Device Group: 1~4  
 Modbus Device no.: 01~64 (binary encoding by sw)  
 Communication port status: TX/RX

### Analogue output(option)

#### Resolution:

12 bits AD converter

#### Output ripple:

$\leq 0.25\%$  of F.S.

#### Response time:

$\leq 200$  m-sec. (10~90% of input)

#### Output range:

4~20mA, max load 500Ω

### RS 485 communication

#### Device No.:

1~255, Group (1~4) \* Device no(1~64)

#### Baud Rate:

9600

#### Parity:

N, 8, 1

### Power

#### Power Supply:

DC 24V $\pm 10\%$

#### Power consumption:

$\leq 2\text{W}$

### Environmental

#### Operating temperature:

0 ~ 50°C

#### Operating relative humidity:

0 ~ 100 %RH, non-condensing

#### Temperature coefficient:

$\leq 0.008\%$  RH / °C (Effect at 0%RH)  
 $\leq 0.008\%$  / °C (Effect at 28°C)

#### Storage temperature:

-10~70 °C

#### Enclosure:

IP30

### Electrical safety

#### EMC:

EN61326

#### Safety:

EN61010

### Mechanical

#### Dimensions:

120mm(W) x 119mm(H) x 22mm(D)

#### Housing:

ABS white, fire-protection (UL 94V-0)

#### Mounting:

Wall mounting with loose flange

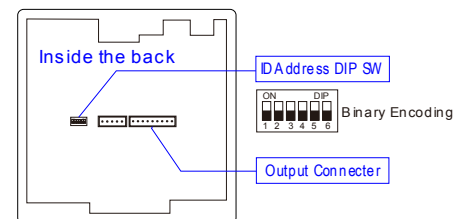
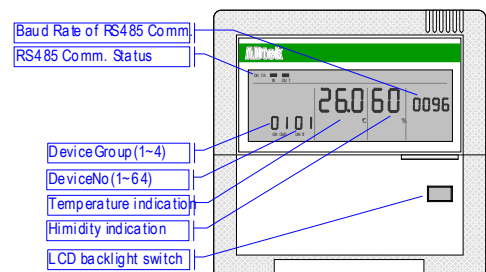
#### Connection:

9 PIN Plug in connector with wires

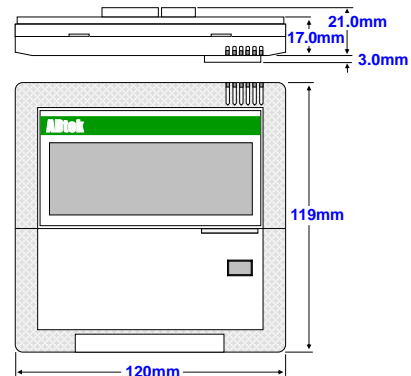
#### Weight:

About 200g

## FRONT PANEL



## DIMENSIONS



## CONNECTION DIAGRAM

