

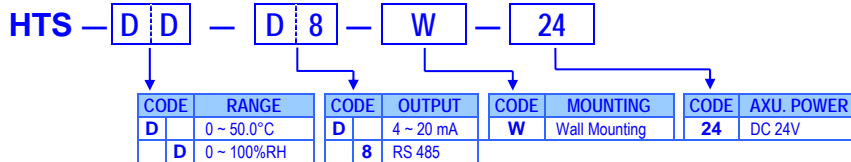
HTS HUMIDITY & TEMPERATURE Transmitter

FEATURE

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



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)	

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 Pt100Ω, DIN43760
 Humidity : Thin-film capacitor

Response time:

Temperature: ≤ 10 sec.(still air)
 Humidity: ≤ 4 sec. (still air)

Span adjustment:

Digital compensation

Zero adjustment:

Digital compensation

Display

LCD:

LCD with backlight
 Temperature reading: 0.0~50.0 °C
 Humidity reading: 0~100%RH
 Modbus Device Group: 1
 Modbus Device no.: 01~32 (binary encoding by sw)
 Communication port status: TX/RX

Analogue output

Resolution:

12 bits AD converter

Output ripple:

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

Response time:

≤ 200 ms (10~90% of input)

Output range:

4~20mA, max load 500Ω

RS 485 communication

Device No:

1~32

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

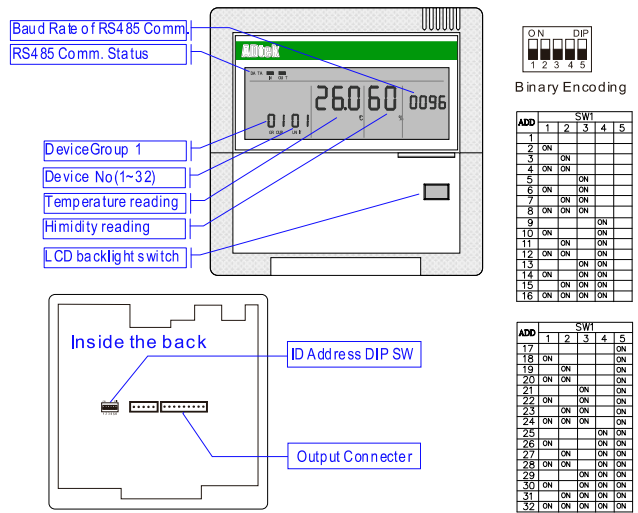
Connection:

9 PIN Plug in connector with wires

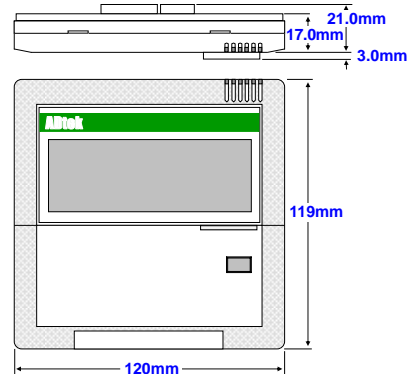
Weight:

About 200g

FRONT PANEL



DIMENSIONS



CONNECTION DIAGRAM

