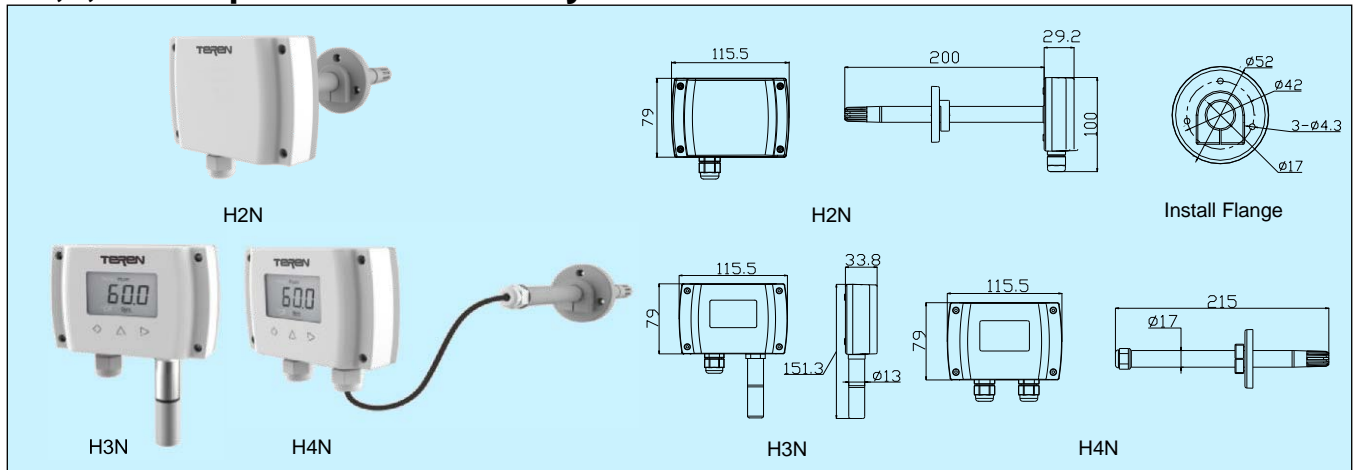




INTELLIGENCE

H2,3,4N Temperature & Humidity Transmitter



Applications & Features

- Humidity and temperature transmitters H2N (duct), H3N (outside) and H4N (remote) are designed for environment monitoring and controlling in industrial and commercial buildings
- High performance digital sensors and circuits, ensure accurate measurement and temperature compensation
- Digital technology applied, multiple outputs optional, over voltage and reverse polarity protection, high reliability and anti-interference capability
- LCD display temperature and humidity alternatively
- LCD & function keys can set parameters and calibrate output, so the product can be a stand alone controller
- Good long term stability and reliability
- 100% field changeable sensor without re-calibration
- Fast response
- High protection rate up to IP65

Specifications

Relative Humidity

Sensor: Digital polymer
Range: 0~100%RH
Output: see models
Accuracy: 2%, 3%, (25°C, 20~80%RH)
Hysteresis: <±1%RH
Response time: <10s (25°C, in slow air)
Drift: <±0.5%RH / year

Temperature

Sensor: Digital temperature sensor or RTD/thermistor
Range: 0~50°C, 0~100°C, -40~60°C, or others
Output: 4~20mA (2wires), 0~10VDC (3wires), RS485/Modbus, or RTD/thermistor: see Models and resistance table
Accuracy: transmitter: ≤±0.4°C @ 5~60°C or 0.3°C @ 5~60°C
 RTD or thermistor: typical 0.2~0.5°C @ 25°C, see models

Power: Current: 18.5~35VDC (R_L=500Ω); 8.5~35VDC (R_L=0Ω)
 Voltage: 16~28VAC/ 16~35VDC

Output Load: ≤500Ω (current), ≥2KΩ (voltage)

Relay output: 2xSPST, 3A/30VDC, 3A/250VAC

Display and keys: 4 digits LCD, with unit indication, backlight (4-20mA N/A), 3 touch keys, see more details on LCD & Keys operation

Work Temp.: -30~70°C (LCD: -20~70°C), 5~95%RH (Non cond.)

Housing: ABS housing, UHMW-PE filter (H2/H4N), SS probe and sintered filter (H3N)

Protection: IP65

Weight: H2N:360g; H3N:270g; H4N:430g

Approval: CE

Models

Model	H2N	H3N	H4N						Duct mount Temp./RH transmitter Outside air Temp./RH transmitter Remote mount Temp./ RH transmitter
RH Accuracy		2 3							±2%RH(0.3°C) ±3%RH(0.4°C)
RH Output			1 2 8						0~10VDC(3 wires) 4~20mA(2 wires) RS485/Modbus
Temp. Output				0 1 2 3 4 5 6 7 8 9 A					No 0~10VDC(3 wires) 4~20mA(2 wires) PT1000, ±0.2°C@25°C PT100, ±0.2°C@25°C NTC20K, ±0.2°C@25°C Ni 1000, ±0.5°C@25°C NTC10K-II, 0.2°C@25°C RS485/Modbus NTC10K-III,0.3°C@25°C NTC10K-A, 0.3°C@25°C
Temp. Range				0 1 2 3 7					No 0~50°C 0~100°C -40~60°C others
Relay						0 1			No 2×SPST(4-20mA N/A)
LCD & Keys							0 1 2		No LCD LCD & Keys

1. H2,3,4N series current products are powered by RH circuit, so the RH circuit must be powered. Otherwise it could not work.
2. Only when the temperature output is 1 or 2, the temperature range 1-7 is applicable. Otherwise, always use 0 as temperature range selection.
3. See resistance table on page 1 of this catalog.