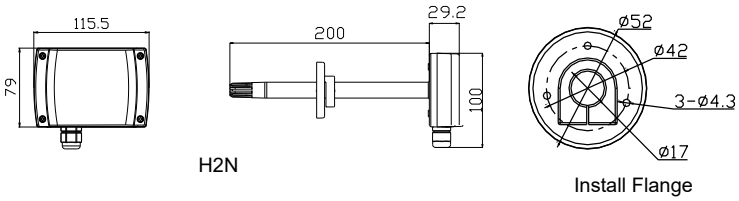
H2,3,4N Temperature & Humidity Transmitter

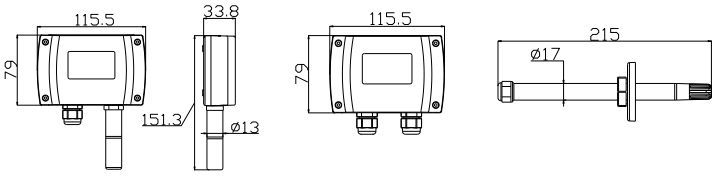


H2N





H3N H4N



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: see models
Accuracy: Transmitter: ⩽±0.4°C @ 5~60°C or 0.3°C @ 5~60°C
RTD or thermistor: typical 0.2~0.4°C@ 25°C, see models

Power: Current: 18.5~35VDC (R_{load}=500Ω)
8.5~35VDC (R_{load}=0Ω)
Voltage: 16~28VAC/ 16~35VDC
Output Load: ≤500Ω (current), ≥2KΩ (voltage)
Relay output: 2xSPST, 0.5A/30VDC
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:0~50°C)
5~95%RH (Non condensing)
Housing: Fireproof 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 2xSPST(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.

EMCT Global Trading LLC.
Office 44, 6th Floor, Mai Tower, Al-Nahda 1, Dubai, UAE. Mob: +971-507864453 Email: sales@emcglobaltrade.com www.emcglobaltrade.com