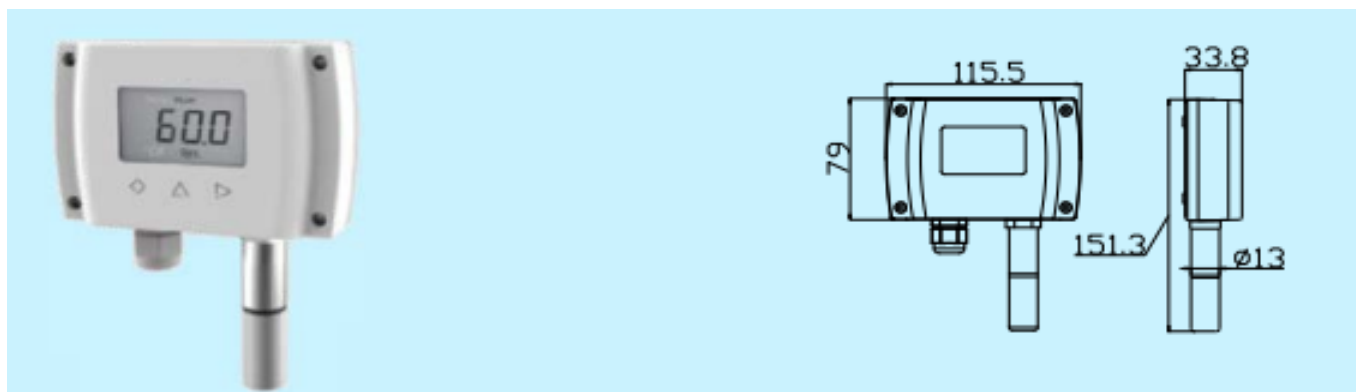


OUTSIDE HUMIDITY & TEMPERATURE SENSOR/TRANSMITTER



APPLICATIONS & FEATURES

- TNDE-H3N Outside humidity and temperature transmitters is 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 up to $\pm 5\%$, so the product can be a standalone controller
- Good long-term stability and reliability
- 100% field changeable sensor without re-calibration
- Fast response
- High protection rates up to IP66

SPECIFICATIONS

Relative Humidity	Sensor: Digital polymer Range: 0~100%RH Accuracy: 2%, 3%, (25°C, 20~80%RH) Hysteresis: <±1%RH Drift: <±0.5%RH / year Response time: <10s (25°C, in slow air) Output: 4~20mA (2 wires), 0~10VDC (3 wires), RS485/Modbus
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: $\leq \pm 0.4^{\circ}\text{C}$ @ 5~60°C or 0.3°C @ 5~60°C, RTD or thermistor: typical $0.2\sim 0.5^{\circ}\text{C}$@ 25°C, see models
Power	Current: 18.5~35VDC (RL=500Ω); 8.5~35VDC (RL=0Ω) Voltage: 16~28VAC/ 16~35VDC
Output Load	$\leq 500\Omega$ (current), $\geq 2\text{K}\Omega$ (voltage)
Option Relay output	2×SPST, 3A/30VDC, 3A/250VAC
Option Display and keys	4 digits LCD, with unit indication, backlight (4-20mA N/A), 3 touch keys, see more details on LCD & Keys operation
Operating Condition	-30~70°C, 0~100%RH non-condensing
Housing	ABS, IP66, Stainless steel probe and sintered filter
Approval	CE

ORDERING

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