NEO WAVE

Technical Data Sheet

TxTH29

Temperature & Humidity Sensor

OverView

The **TxTH29** series temperature and humidity sensor is designed for industrial use, offering wall-mounted, pipeline, and split installation options. It supports current, voltage, and RS485 output modes, ensuring flexibility. With easy installation and strong adaptability, it is ideal for data centers, HVAC systems, buildings, greenhouses, farms, and other environments requiring precise monitoring.

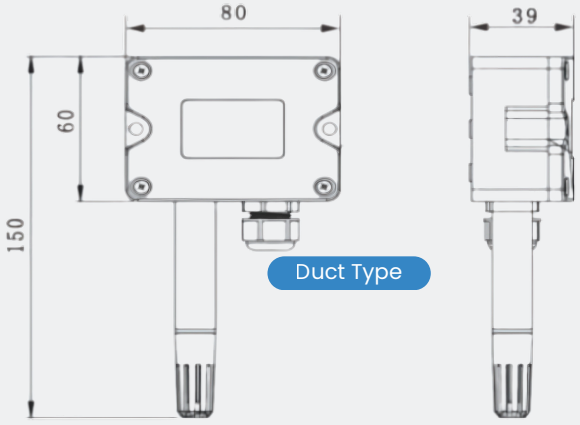
Features

- High-precision sensor and control.
- LCD backlight dual display.
- Overvoltage, reverse connection protection.
- IP65 protection level.
- Adjustable temperature range via code.
- 485 output configurable via code.

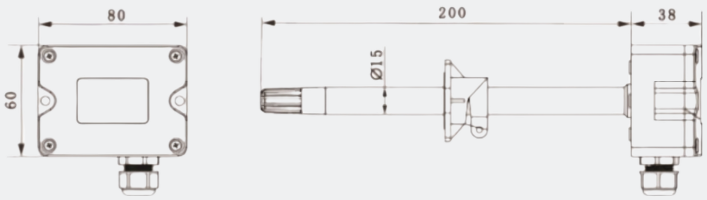
Applications

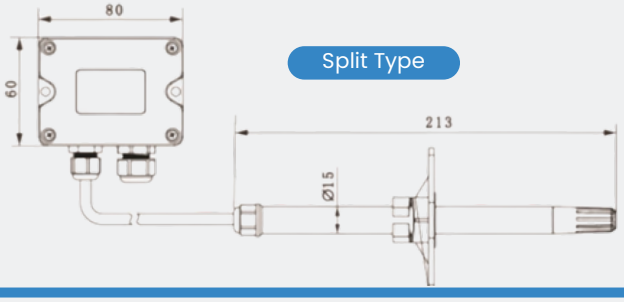
- Integration with PLC systems
- Use in dehumidifiers and high-standard air conditioning systems
- Supporting infrastructure projects
- Applications in metallurgical automation
- Utilization in painting equipment

Dimensions



Wall Mounted





Specifications:

Temperature & Humidity Sensor

Relative humidity	
Sensor	Digital
Range	0%~100%RH
Output	RS485/Modbus, 0~10VDC, 4~20mA
Accuracy	±2%@ 25℃ & 60%RH
Response time	≤10s(20℃, slow flow air)

Temperature	
Sensor	Digital or thermal resistance
Range	0~50°C, -20~60°C etc.
Output	4~20mA, 0~10VDC, RS485/Modbus
Thermal Resistance	See Order Ref No. and Thermal Resistance Indexing Table
Accuracy	Digital:±0.3℃@0~60℃/Thermal resistance:±0.2~0.4℃@25℃
Power Supply	**Voltage type**/RS485 type :15~35VDC/24VAC±20%; **Current type** 19.5~35VDC (RL=500Ω) 9.5~35VDC (RL=0Ω)
Output Load	≤250Ω**(Current Type)**，≥2KΩ**(Voltage Type)**
Display	LCD display optional, with unit display and backlight (4~20mA without backlight)
Shell Material	ABS housing, PC probe and high polymer filter
Working Environment	-20~60°C ,5%-95%RH (Non-condensing)
Protection Level	IP65

NEO WAVE®

Selection Code:

Code and description							Remark
TxTH29W	Wall-mounted temperature and humidity Sensor						Model
TxTH29D	Duct type temperature and humidity Sensor						
TxTH29S	Split type temperature and humidity Sensor						
	3	±3%RH(±0.5°C)					Accuracy Range
		V10	0~10VDC(3-wire)				Humidity Output
		A	4~20mA(2-wire)				
		RS	RS485/Modbus				
			V10	0~10VDC(3-wire)			Temperature Output
			A	4~20mA(2-wire)			
			RS	RS485/Modbus			
			1	Pt100, ±0.2°C@0°C			
			2	Pt1000, ±0.2°C@0°C			
			3	NTC10K, ±0.4°C@25°C			
			4	NTC20K, ±0.4°C@25°C			
				1	NO		Temperature Range
				2	0~50°C		
				3	-20~60°C		
				9	Others (customerized)		
					1	without display	Display
					2	with display	

For technical support please contact: support@neowave.tech