



Description & Features:

- The WTH5F2 is a fully enclosed, louvered outdoor temperature and humidity sensor with high-precision digital sensors and a built-in transmitter output
- All-weather, multi-layer louved design achieves natural ventilation while offering full environmental protection
- The louvers further protect the electronics from direct sunlight, rain intrusion and strong wind; full protection against extreme weather
- The built-in highly precise sensor chip provides real-time collection of atmospheric temperature and humidity
- They are available with a wide temperature range and multiple measurements and output modes suitable for a variety of HVAC control systems
- Complete protection against overvoltage, reverse polarity and EMC interference
- 5 year warranty

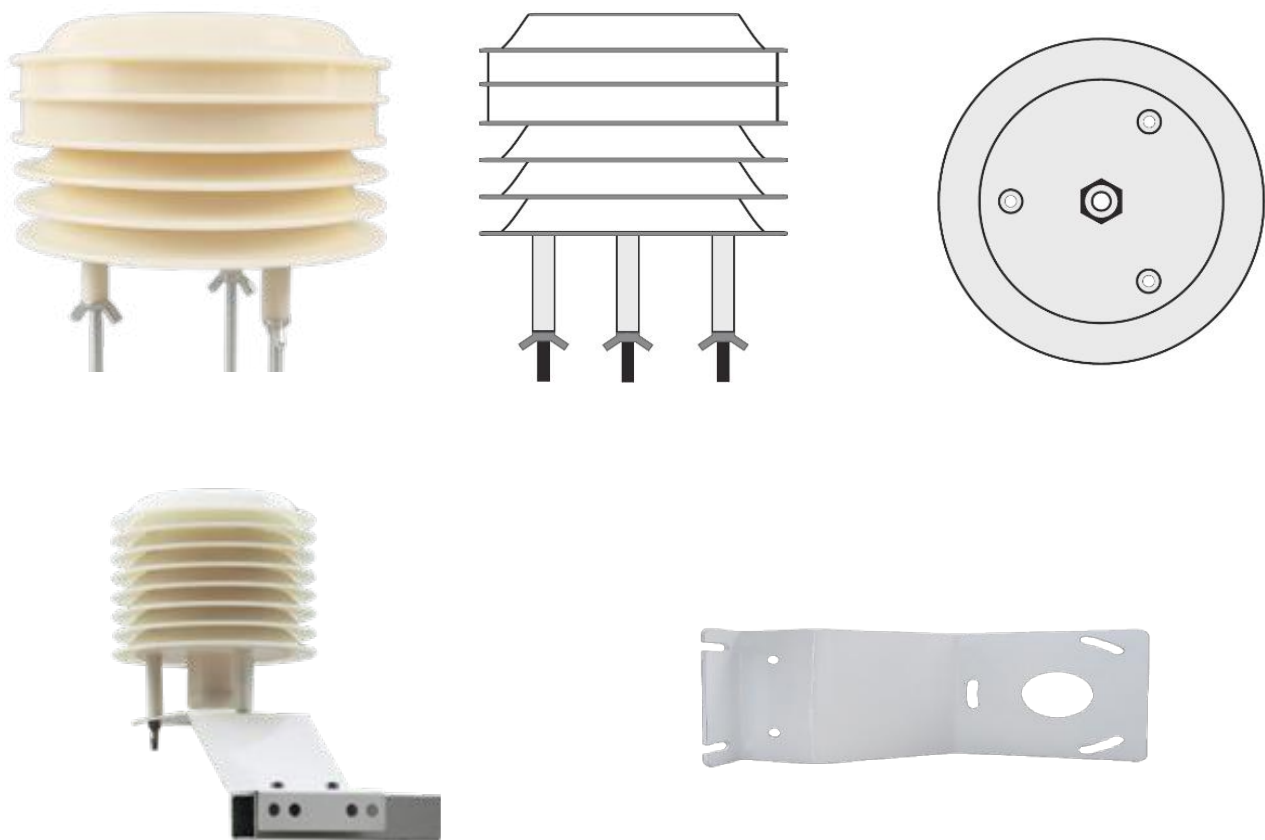
Applications:

- These products are widely used in outdoor installations for environmental monitoring, meteorological observation, agricultural greenhouses and many more locations
- They are installed in conjunction with HVAC control systems in many outside locations of buildings and manufacturing or process facilities

Note: Mounting bracket and 3x wing-nuts included

Specifications	
Measuring Range	Temperature: 0/50°C & 32/122°F, -20/80°C & -4/176°F or -40/60°C & -40/140°F Humidity: 0-100% RH
Standard Accuracy	Temperature: 0.3C @ 25°C / 77°F Humidity: ±3% RH & 3°C, ±5% RH & 5°C (@ 25°C / 77°F & 20-80% RH)
Output Signal	4/20 mA 2-wire 0/10 Vdc 3-wire RS485
Output	Current @ RL ≤ 500Ω Voltage @ RL ≤ 10kΩ
Response Time	T90 ≤ 10 seconds
Power Supply	10-30 Vdc
Working Environment	-40/80°C or -40/176°F & 0-95% RH, No condensation
Storage Environment	-40/70°C or -40/158°F & 0-90% RH, No condensation
Electromagnetic Protection	EMC refers to GB/T 13926, EN61000-6-2, EN61000-6-3
Housing Material	UV protected ABS
Protection Level	IP65
Fire Rating	V-0, refer to UL94 listing
Wiring Type	Outdoor & waterproof 4-wire shielded cable
Installation Method	Mounting bracket

Dimensions (mm)



Engineering Codes

WTH5F2 - Outdoor temperature and humidity transmitter engineering order codes

Description	Technical parameters						
Power supply	24 Vdc	1					
Output signal	4/20 mA		1				
	0/10 V		3				
	RS485		R				
Temperature range (PT1000)	0/50°C & 32/122°F			1			
	0/100°C & 32/212°F			2			
	-20/80°C & -4/176°F			3			
	-40/60°C * -40/140°F			4			
	Customized (example - RS485)			D			
Humidity accuracy	±3% RH				3		
	±5% RH				5		
LCD	Without LCD display					A	
Customization	Additional mounting bracket						WTH5F24M
	Special ranges, labelling etc						Z###