



Description & Features:

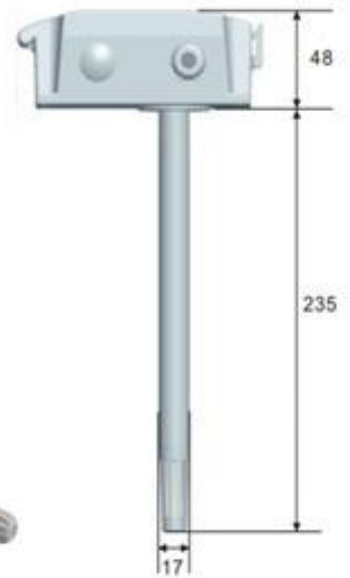
- The WRH2 and WTH2 series are indoor duct-type temperature and humidity sensors and transmitters with high-precision digital chips and built-in transmitter outputs
- These products offer multiple power supply options and analogue or digital output signals and a configurable LCD display
- Designed & manufactured with high-precision fast responding sensors with strong long-term stability
- They are available with a wide temperature ranges with multiple measurement and output modes and are suitable for a variety of HVAC control systems
- Higher IP housing rating and an optional high-definition LCD display
- Complete protection against overvoltage, reverse polarity and EMC interference
- Compact sizing with aesthetically pleasing design and very easy to install
- 5 year warranty

Applications:

- These products are widely installed in duct and ventilation chambers for the measurement of temperature and humidity
- They are installed in conjunction with HVAC control systems to control fresh air supply and return air systems
- They are found in commercial and institutional buildings including datacentres, laboratories, airports, manufacturing centres and many other intelligent buildings

Technical Parameters	
Measuring Range	Temperature: 0/50°C & 32/122°F, 0/100°C & 32/212°F, -20/80°C & -4/176°F or -40/60°C & -40/140°F Humidity: 0-100% RH
Standard Accuracy	Temperature: 0.1°C (PT100, Class B @ 25°C / 77°F) Humidity: 0.8% RH @ 25°C / 77°F
Hysteresis and Repeatability	Temperature: 0.05°C Humidity: 0.2%RH
Long Term Stability	Temperature: <0.1°C / year Humidity: <1% RH / year
Output Signal	4/20mA, 0/10V, 0/5V or RS485
Output	Current @ RL ≤ 500Ω Voltage @ RL ≤ 10kΩ
Power Supply	24 Vac/Vdc, 24 Vdc 2-wire
Working Environment	-40/80°C or -40/176°F & 0-95%RH, No condensation LCD @ 0/50°C or 32/122°F
Storage Environment	-40/70°C or -40/158°F & 0-95% RH, No condensation
Housing Material	ABS and Polycarbonate
Protection Level	IP65
Fire Rating	V-0, refer to UL94 listing
Display Type	LCD @ -10/60°C or 14/140°F - Note: To be installed in non-condensing environments
Product Certification	CE

Dimensions (mm)



235mm = 9.3"

120mm = 4.7"

88mm = 3.5"

48mm = 1.9"

17mm = 1.7"

Series Number (how to order)

WTH2 - Duct Temperature and Humidity Transmitter Engineering Order Codes

Description	Technical parameters						
Power supply	24 Vdc	1					
	24 Vac	2					
Output signal	No output signal		0				
	4/20 mA		1				
	0/10 V		3				
	0/5 V		6				
	RS485		R				
Temperature range (PT1000)	No temperature reading			0			
	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	±2% RH				2		
	±3% RH				3		
	±5% RH				5		
LCD	Without LCD display					-	
	With LCD display, °C and % Relative Humidity					SC	
	With LCD display, °C / °F and % Relative Humidity					DS	
Customization	Special ranges, stem dimensions, labelling etc						Z###

WRH2 - Duct Single Humidity or Temperature Humidity Sensor Engineering Order Codes

Description	Technical parameters						
Power supply	24 Vdc	1					
	24 Vac	2					
Output signal (Humidity only)	No output signal		0				
	4/20 mA		1				
	0/10 V		3				
	0/5 V		6				
	RS485		R				
Temperature output (-40/80 °C / -40/176°F)	No temperature reading			0			
	Pt100			1			
	Pt1000			2			
	NTC10K			4			
	NTC20K			5			
	Other types			#			
Humidity accuracy	±2% RH				2		
	±3% RH				3		
	±5% RH				5		
LCD	Without LCD display					-	
	With LCD display, % Relative Humidity					RH	
Customization	Special ranges, stem dimensions, labelling etc						Z###