



*Thermowells sold separately

Description & Features:

- The WT2 and WR2 series are indoor duct-type ventilation temperature sensors and transmitters with high-precision digital chips
- These products offer multiple power supply options and analog or digital output signals and a LCD display (LCD available for WT2 Series)
- Designed and manufactured with high-precision fast responding Class A RTD or NTC 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
- IP65 high protection grade housing
- Complete protection against overvoltage, reverse polarity and EMC interference
- Customization available for dedicated installations and private labelling
- 5 year warranty

Applications:

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

Technical Parameters	
Measuring range	0/50°C & 32/122°F, 0/100°C & 32/212°F, -20/80°C & -4/176°F, -40/60°C & -40/140°F, -50/50°C & -58/122°F
Measurement accuracy	±0.2°C @25°C, ±0.5°C of full scale
Transmission accuracy	±0.1°C (full scale)
Output signal	4/20mA, 0/10V, 0/5V or RS485
Stem Material	304 SS
Stem Length	100mm (3.9"), 150mm (5.9"), 200mm (7.9"), 300mm (11.8") and others available
Stem Diameter	6.5mm (0.26")
Response Time	T90 ≤ 10 s
Working Power Supply	24Vac/Vdc or 24Vdc
Working Environment	-25/70°C or -13/158°F & 0-95% RH, No condensation
Storage Environment	-40/70°C or -40/158°F & 0-95% RH, No condensation
Display Type	LCD @ -10/60°C or 14/140°F - Note: To be installed in non-condensing environments
Casing Material	ABS + PC
Protection Level	IP65
Fire Rating	V-0, refer to UL94 listing
Product Certification	CE, ROHS

Housing Types

D-type



*Side Latch

D-type with LCD



E-type



*Bottom Latch



Thermowells sold separately along with thread protection

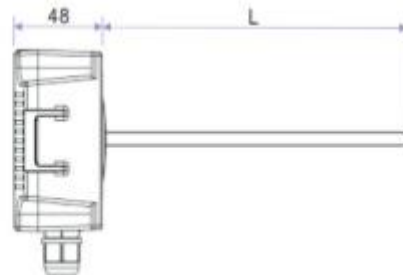
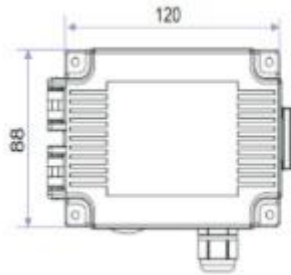
Ventilation Temperature Sensors With Transmitter Output

**WT2/
WR2**

Electronic
Temperature Sensors

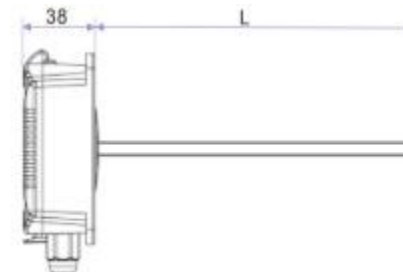
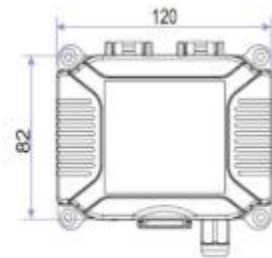
Dimensions (mm)

D-type (Side Latch)



48mm = 1.9"
88mm = 3.5"
120mm = 4.7"

E-type (Bottom Latch)



38mm = 1.5"
82mm = 3.2"
120mm = 4.7"

Selection Table

WT2 - Ventilation Temperature Transmitter engineering order codes

Description	Technical parameters								
Power supply	24 Vdc	1							
	24 Vac/Vdc	4							
Output signal	4/20 mA	1							
	0/10 V	3							
	0/5 V	6							
	RS485	R							
Temperature range	0/50°C & 32/122°F		1						
(PT1000)	0/100°C & 32/212°F		2						
	-20/80°C & -4/176°F		3						
	-40/60°C & -40/140°F		4						
	-50/50°C & -58/122°F		5						
	Other range		#						
Housing Type	D-type			D1					
	E-type			E1					
LCD	Without LCD display				-				
	LCD display, °C				SC				
	LCD display, °C/°F				DS				
Stem length	100mm (3.9")					L1			
	150mm (5.9")					L2			
	200mm (7.9")					L3			
	300mm (11.8")					L4			
	Other, specify mm					L#			
Thermowell, 300 Series stainless steel	No thermowell					-			
(for above stem length, 1/2"NPT thread)	100mm (3.9")					TW1			
(only required for plumbing/water installations)	150mm (5.9")					TW2			
(thread protector included)	200mm (7.9")					TW3			
(MOQ = 100 pcs)	300mm (11.8")					TW4			
	Other, specify mm					TW###			
Customization	Special ranges, labelling etc						Z###		

WR2 - Ventilation Temperature Sensor engineering order codes

Description	Technical parameters								
Power supply	24 Vdc	1							
	24 Vac/Vdc	4							
Output signal	4/20 mA	1							
	0/10 V	3							
	0/5 V	6							
	RS485	R							
Temperature sensing	Pt100		1						
(-40/80 °C / -40/176°F)	Pt1000		2						
	NTC10K		4						
	NTC20K		5						
	Other types		#						
Housing Type	D-type			D1					
	E-type			E1					
Stem length	100mm (3.9")					L1			
	150mm (5.9")					L2			
	200mm (7.9")					L3			
	300mm (11.8")					L4			
	Other, specify mm					L#			
Thermowell, 300 Series stainless steel	No thermowell					-			
(for above stem length, 1/2"NPT thread)	100mm (3.9")					TW1			
(only required for plumbing/water installations)	150mm (5.9")					TW2			
(thread protector included)	200mm (7.9")					TW3			
(MOQ = 100 pcs)	300mm (11.8")					TW4			
	Other, specify mm					TW###			
Customization	Special ranges, labelling etc						Z###		

Note: When powered by 24Vdc (12Vdc) and 4/20mA out , this product supports both two-wire and three-wire wiring.