



Description & Features:

- The WR5 and WT5 series are outdoor temperature sensors with high-precision digital chips and built-in transmitter outputs
- Their high IP65 rating ensures complete protection against outdoor installations as well as indoor installations in dusty and wet environments
- These products offer multiple power supply options and analog or digital output signals and an optional LCD display
- The product uses high-precision Class A RTD or NTC sensing element for 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
- Complete protection against overvoltage, reverse polarity and EMC interference
- Customization available for dedicated installations and private labelling
- 5 year warranty

Applications:

- These products are installed in outdoor environments or in various harsh conditions for measurement of temperature
- They are installed in conjunction with HVAC control systems in many outside locations of buildings and manufacturing or process facilities

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
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
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

Dimensions (mm)



8mm = 1.5"
82mm = 3.2"
120mm = 4.7"

Selection Table

WT5 - Outdoor 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		
	0/100°C & 32/212°F			2		
	-20/80°C & -4/176°F			3		
	-40/60°C * -40/140°F			4		
	Other range			#		
LCD	Without LCD display				-	
	LCD display, °C				SC	
	LCD display, °C/°F				DS	
Customization	Special ranges, labelling etc					Z###

WR5 - Outdoor Temperature Sensor

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	Pt1000			1		
	Pt100			2		
	NTC10K			4		
	NTC20K			5		
	Other types			#		
LCD	Without LCD display				-	
	LCD display, °C				SC	
	LCD display, °C/°F				DS	
Customization	Special ranges, labelling etc					Z###

Note: A protective cover should be installed to safeguard against direct sunlight, rain/snow and severe wind storms.