

**Description & Features:**

- The WT1 and WR1 series are indoor temperature sensors with built-in transmitter outputs
- These products offer multiple power supply options and analog or digital output signals to choose from
- Designed and manufactured with high-precision fast responding sensors with strong long-term stability
- They provide multiple measurement and output modes and are suitable for a variety of HVAC control systems
- Optional high-definition LCD display is available for WT1 Series
- Complete protection against overvoltage, reverse polarity and EMC interference
- Compact sizing with aesthetically pleasing design and very easy to install
- Customization available for dedicated installations and private labelling
- 5-year warranty

Applications:

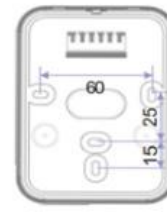
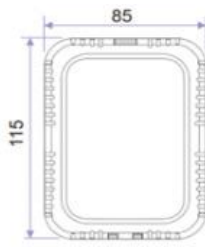
- The products are widely used in HVAC control systems of various types in commercial and government buildings as well as manufacturing and processing facilities
- Suitable for indoor temperature measurement, such as clean rooms, laboratories, hospitals, datacentres, schools, and many more application areas

Technical Parameters

Measuring range	0/50°C & 32/122°F, -20/80°C & -4/176°F
Measurement accuracy	0.2°C(@25°F)
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, 24Vdc (two-wire system) or 12Vdc
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	IP30
Fire rating	V-0, refer to UL94 listing
Product certification:	CE, ROHS

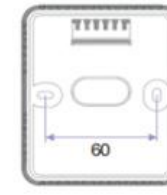
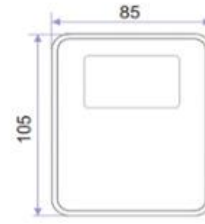
Dimensions (mm)

B Type



28mm = 1.1"
29mm = 1.1"
60mm = 2.4"
85mm = 3.3"
105mm = 4.1"
115mm = 4.5"

C Type



Selection Table

WT1 - Indoor Temperature Transmitter engineering order codes

Description	Technical parameters					
Power supply	24 Vdc	1				
	12 Vdc	3				
	24 Vac/Vdc	4				
Output signal	4/20 mA		1			
	0/10 V		3			
	0/5 V		6			
	RS485 (B shell only)		R			
Temperature range (PT1000)	0/50°C & 32/122°F			1		
	-20/80°C & -4/176°F			3		
	Other range			#		
Housing Type	B-type, contoured edging				B1	
	C-type, classic design				C1	
LCD	Without LCD display					-
	LCD display, °C					SC
	LCD display, °C/°F					DS
Customization	Special ranges, labelling etc					Z###

WR1 - Indoor Temperature Sensor Transmitter engineering Order Codes

Description	Technical parameters					
Power supply	24 Vdc	1				
	12 Vdc	3				
	24 Vac/Vdc	4				
Output signal	4/20 mA		1			
	0/10 V		2			
	0/5 V		3			
	RS485		R			
Temperature sensing (-40/80 °C / -40/176°F)	Pt100 - 100 Ω @ 0°C; Accuracy ±0.2°C @ 25°C			1		
	Pt1000 - 1,000 Ω @ 0°C; Accuracy ±0.2°C @ 25°C			2		
	NTC10K - 10K Ω @ 25°C; Accuracy ±0.4°C @ 25°C			4		
	NTC20K - 20K Ω @ 25°C; Accuracy ±0.4°C @ 25°C			5		
	Other types			#		
Housing Type	B-type, contoured edging				B1	
	C-type, classic design				C1	
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.