

CMWR/Z TEMPERATURE TRANSMITTER MODULE SERIES**Introduction**

CMWR/Z temperature transmitter module is a kind of temperature transmitter unit which is on-site installed. Adopts two-wire transmission to output 4~20mA linear current signal. CMWR/Z temperature transmitter module can be integrated with junction box of thermocouple or thermal resistance, additionally, it can also be mounted inside instrument panel as transmission unit.

**Application**

The series is widely used in industries and scientific area such as petroleum, chemical, textile, metallurgy, mechatronics, power supply, aeronautical, food and medical, etc as well as other automatic temperature metering, transmitting and controlling area.

Features

1. Introduce advanced non-linear correcting circuit.
2. Introduce self-correcting circuit of drift.
3. Introduce unique anti-interference circuit.
4. Cold-end compensation circuit of high accuracy.
5. Non-corrosive, outstanding vibration-resistance ability and reliable performance.

Technical Reference

Measuring Accuracy	$\pm 0.1\% \text{ F.S} / \pm 0.2\% \text{ F.S} / \pm 0.5\% \text{ F.S}$
Influence of Environment Temperature	$0.1 = \pm 0.1\% \text{ F.S}^{\circ}\text{C}, 0.2 = \pm 0.2\% \text{ F.S}^{\circ}\text{C}, 0.5 = \pm 0.5\% \text{ F.S}^{\circ}\text{C}$
Output	Two-wire, 24VDC, 4~20mA
Deviation of Cold-end Compensation	$< 1^{\circ} \text{ K, J, E, S}$
Stability	$< 0.2\% \text{ F.S}$ per year
Load Resistance	0~600 Ω
Power Supply	24VDC (12VDC is for option if required)
Environment Temperature	-25~+85 $^{\circ}\text{C}$
Storage Temperature	-25~+125 $^{\circ}\text{C}$
Medium Temperature	-200~+1600 $^{\circ}\text{C}$
Response Time	$\leq 10\text{ms}$
Consumption	$< 0.5 \text{ Kw}$
Can be explosion-proof, class ia I CT4.	

Ordering Code

CMTW / /

other requirement _____
 measuring range: °C / °F _____
 A=0.1%F.S,B=0.2%F.S,C=0.5%F.S _____

blank=standard model
 d=explosion suppression model
 i=intrinsic safe model

1=shape1,physical dimension: Φ 45mm×20mm,install dimension:36mm
 2=shape2,physical dimension: Φ 54mm×25mm,install dimension:23mm
 3=shape3,physical dimension: Φ 50mm×30mm,install dimension:44mm
 5=shape4,physical dimension: Φ 54mm×28mm,install dimension:44mm
 6=shape5,physical dimension: Φ 79mm×30mm×30mm
 install dimension:36mm
 7=shape6,physical dimension: Φ 49mm×27mm
 install dimension:33~36mm
 8=shape7,physical dimension: Φ 45mm×20mm,install dimension:36mm
 9=shape8,physical dimension: Φ 54mm×20mm,install dimension:23mm

5=integral installation(explosion suppression)
 6=integral installation(non-explosion suppression)

blank=standard model,-25~+85 °C
 T=high temperature model,-25~+120 °C

	Thermocouple	Thermal Resistance
1	K	Cu50
2	J	Cu100
3	E	Pt10
4	T	Pt100
5	S	Pt1000
6	B	---
7	R	---
8	N	---

2=two-wire,4~20mA, 3=three-wire,1~5V,4=four-wire,4~20mA

R=thermocouple, Z=thermal resistance

Temperature Transmission Unit