

XMT-4000 series

digital temperature
indicating regulators



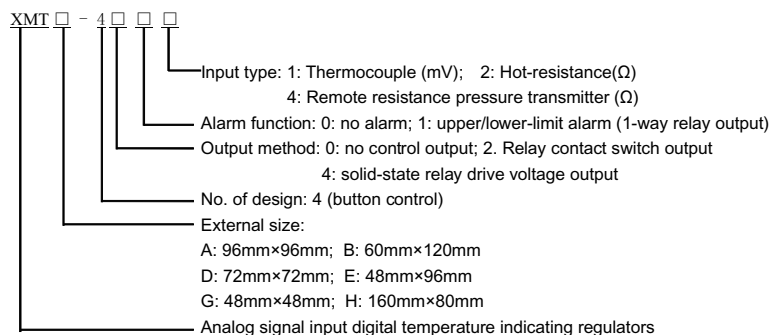
Summary:

XMT-4000 series digital temperature indicating regulators has variety of advantages, such as high accuracy, easy installation, good reliability, strong anti-vibration and anti-interference ability, etc. With various of external sizes and complete control mode, it can be widely applied into temperature measurement and automation control within -200°C to 1800°C for those industries including plastic, rubber, packing, food machinery, metallurgy, refrigeration, chemical, medical treatment, etc.

1. Main functions and characteristics:

- ◆ High cost performance with accuracy of class one, adopting keyboard input settings.
- ◆ Support same type of sensor with graduation freely switched, full range of measurement and automatic switching for resolution
- ◆ The input adopts digital correction system, the built-in common thermocouple and hot-resistance non-linear correction table for accurate measurement.
- ◆ The potentiometer regulation and time scale regulation can be freely switched, and the positive & negative effect can be set.
- ◆ It has perfect self-checking and protection function. According to the nature of the error, it can automatically correct or timely propose and close output when errors occur.

2. Model specification and selection description:



3. Input specification and measuring range:

Input type	Graduation	Measuring range
Thermocouple (TC)	K	-50~+1350°C
	S	-50~+1750°C
	R	-50~+1750°C
	T	-200~+400°C
	E	-50~+800°C
	J	-50~+1000°C
	B	0~+1800°C
	N	-50~+1300°C
Hot resistance (RTD)	Cu50	-50~+150°C
	Pt100	-200~+850°C
Resistance ®	30Ω~350Ω	

4. Main technical performance and parameters:

Item	Type index
Basic error	±1.0%F·S±1 word
Sampling period	<0.3s
Regulation mode	≤±1.0%F·S ≤±0.5%F·S
Switch difference	Position regulation (positive/negative effect and switch difference can be set) Time scale regulation (positive/negative effect and proportional band, null cycle and manual adjustment coefficient can be set)
Cold end compensation	The error is less than 2°C within the range 0°C~40°C
Alarm mode	Have upper-limit alarm and lower-limit alarm, can realize single way alarm output, can freely choose resolute value alarm or deviation alarm
Output specification	Relay contact switch output: 28VDC/5A, 250VAC/5A Solid state relay drive voltage output: 12VDC/25mA
Work power supply	AC198V~242V, 50Hz/60Hz, consumption<5VA
Work environment	Temperature 0°C~50°C, the relative humidity no more than 85% non-corrosiveness places

Note: F·S is the range of the meter. The meter with B graduation thermocouple can measure within the range 0~+1800°C, but the basic error can not be guaranteed below 600°C.

5. External and installation size:

(Unit: mm)

Model	Panel size	Shell size	Cutting size
XMTA series	96×96	90×90×80	92×92
XMTE series	48×96	44×90×100	45×92
XMTB series	60×120	55×112×80	56×114
XMTG series	48×48	44×44×100	45×45
XMTD series	72×72	66×66×80	68×68
XMTH series	160×80	150×75×100	152×76