



TECHNICIAL SPECIFICATIONS				
Used For	RTD, TC, Ohm, mV			
Power Supply	10 - 32 VDC			
Output	0.01 °C (RTD)			
	0.1 °C (E J K N T)			
	0.2 °C (B R S)			
Accuracy	0.01 °C (RTD)			
	0.5 °C (E J K N T)			
	0.2 °C (B R S)			
Load Resistance	≤ (U - 10) / 0.22			
Relavite Humudity	10%-90 %rH			
Operating Temperature	-40 °C / +85 °C			
Mounting Hole Pitch	D = 33mm			
Weight	About 35g			

GENERAL

- $1. High\ reliability\ and\ exceptional\ EMC\ performance: Built-in\ multi-level\ protection\ circuit\ for\ high\ reliability.$
- 2. High-voltage isolation: As high as 1000V for the isolation voltage between metal capacitance sensor processing circuit and main vircuit.
- 3. Gentek communication protocol: PC programmable.
- 4. High performance-price ratio: Gentek digital bus communication, low price, high precision, good quality.
- $5. \ Easy to install and reliable with unique design.$
- $6. \ Gentek\ protocol\ is\ a\ proprietary\ communication\ protocol\ developed\ by\ our\ company,\ based\ on\ the\ voltage\ modulation.\ Similar\ as\ HART\ communication\ protocol.$

CODE SELECTION TABLE







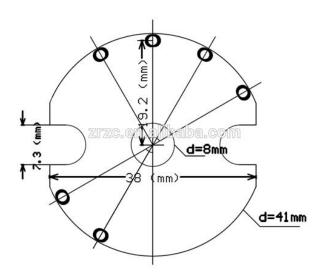






TECHNIC DRAWING AND PRODUCT DRAWINGS

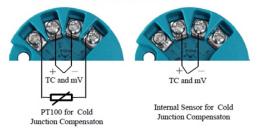
Signal Type		Measurements Range	Minimum Range	Output Accuracy	
T E J J K (TC) R S B		Т	-200~400℃	25℃	±0.4℃/0.2%
		E	-200~1000℃	25℃	±0.4℃/0.2%
		J	- 210~1200℃	25℃	±0.4℃/0.2%
		K	-200~1372℃	25℃	±0.4℃/0.2%
		N	-200~1300℃	25℃	±0.4℃/0.2%
		R	0~1768℃	100℃	±0.8℃/0.2%
		S	0~1768℃	100℃	±0.8℃/0.2%
		В	150~1820℃	100℃	±1.0℃/0.2%
mV input			-120~120mV	10mV	±10µV /0.2%
mv input		-1000~1000mV	50mV	±100μV /0.2%	
(RTD) Pt50	Pt50		-200~850℃	10℃	±0.15℃/0.2%
	Pt100		-200~850℃	10℃	±0.15℃/0.2%
	Pt500		-200~850℃	10℃	±0.1℃/0.2%
	Pt1000		-200~850℃	10°C	±0.1℃/0.2%
Ohm input		0~500 Ω	100Ω	±0.2 Ω/0.2%	
		0~4500 Ω	100Ω	±1.0 Ω/0.2%	



RTD and Ω Connections Diagram



TC and Millivolt Connections Diagram



Configuration and Calibration

Must use the HVRT Communicator to calibrate and set the parameters in the computer !!!

The HVRT Communicator can directly power the D248 without using external power.

