

## Measuring Function

Function	Reference	Range	Resolution	Accuracy	Remark
DCV	50mV	-5.000mV : 55.000mV	1 $\mu$ V	0.02+0.02	Input Resistan approximately 100M $\Omega$
	500mV	-50.00mV : 550.00mV	10 $\mu$ V	0.02+0.01	
OMH	500 $\Omega$	0.00 $\Omega$ : 550.00 $\Omega$	0.01 $\Omega$	0.05+0.02	Test current for 500 $\Omega$ :Approximately 1mA;Test current for 5K $\Omega$ : Approximately 0.1mA;Open circuit voltage:About 2.5V;Dose not include lead resistance;
	5K $\Omega$	0.0000 K $\Omega$ : 5.5000K $\Omega$	0.1 $\Omega$	0.05+0.02	
TC	R	0 $^{\circ}$ C : 1767 $^{\circ}$ C	1 $^{\circ}$ C	0 : 500 $^{\circ}$ C: 1.8 $^{\circ}$ C	By using ITS-90 temperature scale; The accuracy does not include the error of internal temperature compensation caused by a sensor;
	S	0 $^{\circ}$ C : 1767 $^{\circ}$ C		500 : 1767 $^{\circ}$ C: 1.5 $^{\circ}$ C	
	K	-100.0 $^{\circ}$ C : 1372.0 $^{\circ}$ C	0.1 $^{\circ}$ C	-100.0 : 0.0 $^{\circ}$ C: 1.2 $^{\circ}$ C	
	E	-50.0 $^{\circ}$ C : 850.0 $^{\circ}$ C		0.0 : 1372.0 $^{\circ}$ C: 0.8 $^{\circ}$ C	
	J	-60.0 $^{\circ}$ C : 1120.0 $^{\circ}$ C		-50.0C : 0.0 $^{\circ}$ C: 0.9 $^{\circ}$ C	
	T	-100.0 $^{\circ}$ C : 400.0 $^{\circ}$ C		0.0 $^{\circ}$ C : 85.0 $^{\circ}$ C: 1.5 $^{\circ}$ C	
	N	-200.0 $^{\circ}$ C : 1300.0 $^{\circ}$ C		-60.0 : 0.0 $^{\circ}$ C: 1.0 $^{\circ}$ C	
	B	600 $^{\circ}$ C : 1820 $^{\circ}$ C	1 $^{\circ}$ C	0.0 : 1120.0 $^{\circ}$ C: 0.7 $^{\circ}$ C	
	L	-60.0 $^{\circ}$ C : 900.0 $^{\circ}$ C	0.1 $^{\circ}$ C	-100.0 : 0.0 $^{\circ}$ C: 1.0 $^{\circ}$ C	
U	-100.0 $^{\circ}$ C : 600.0 $^{\circ}$ C	0.1 $^{\circ}$ C	0.0 : 400.0 $^{\circ}$ C: 0.7 $^{\circ}$ C		
RTD CONTINUITY	PT100 385	-200.0 $^{\circ}$ C : 800.0 $^{\circ}$ C	0.1 $^{\circ}$ C	-200.0 : 0.0 $^{\circ}$ C: 1.5 $^{\circ}$ C	By using temperature scale ITS-90. Does not include lead resistance. Assuming all three RTD leads are matched for 3-w input.
RTD CONTINUITY	PT1000 385	-200.0 $^{\circ}$ C : 630.0 $^{\circ}$ C		0.0 : 1300.0 $^{\circ}$ C: 0.9 $^{\circ}$ C	
	PT200 385	-200.0 $^{\circ}$ C : 630.0 $^{\circ}$ C		600 : 800 $^{\circ}$ C: 2.2 $^{\circ}$ C	
	PT500 385	-200.0 $^{\circ}$ C : 630.0 $^{\circ}$ C		800 : 1000 $^{\circ}$ C: 1.8 $^{\circ}$ C	
	Cu10	-100.0 $^{\circ}$ C : 260.0 $^{\circ}$ C		1000 : 1820 $^{\circ}$ C: 1.4 $^{\circ}$ C	
	Cu50	-50.0 $^{\circ}$ C : 150.0 $^{\circ}$ C			
	500 $\Omega$	$\leq$ 50 $\Omega$ sound	0.01 $\Omega$		500 $\Omega$ Approximately 1mA test Current

## Output Function

Function	Reference	Range	Resolution	Accuracy	Remark
DC voltage	100mV	-10.000 : 110.000mV	1 $\mu$ V	0.02+0.01	Maximum output: 0.5mA
	1000mV	-100.00 : 1100.00 mV	10 $\mu$ V	0.02+0.01	Maximum output: 2mA
Resistance	400 $\Omega$	0.00 $\Omega$ : 400.00 $\Omega$	0.01 $\Omega$	0.02+0.02	Excitation current: $\pm$ 0.05 –0.3mA;if $\pm$ 0.1-0.5mA.add0.1 $\Omega$ ; Does not include lead resistance;
	4K $\Omega$	0.0000 K $\Omega$ : 4.0000 K $\Omega$	0.1 $\Omega$	0.05+0.025	Excitation current: $\pm$ 0.05 –0.3mA; Does not include lead resistance;

TC	R	0°C~1767°C	1°C	0 : 100°C: 1.5°C	By using ITS-90 temperature scale;The accuracy does not include the error of internal temperature compensation caused by a sensor;
	S	0°C : 1767°C		100 : 1767°C: 1.2°C	
	K	-200.0°C : 1372.0°C	0.1°C	0 : 100°C: 1.5°C	
				-200.0 : -100.0°C:0.6°C	
				-100.0 : 400.0°C: 0.5°C	
				400.0 : 1200.0°C: 0.7°C	
	E	-200.0°C : 1000.0°C	0.1°C	1200.0 : 1372.0°C: 0.9°C	
				-200.0 : -100.0°C: 0.6°C	
				-100.0 : 600.0°C: 0.5°C	
	J	-200.0°C : 1200.0°C	0.1°C	600.0 : 1000.0°C: 0.4°C	
				-200.0 : -100.0°C: 0.6°C	
	T	-250.0°C : 400.0°C	0.1°C	-100.0 : 800.0°C: 0.5°C	
	N	-200.0°C : 1300.0°C		0.1°C	
			-250.0 : 400.0°C: 0.6°C		
-200.0 : -100.0°C: 1.0°C					
B	600°C : 1820°C	1°C	-100.0 : 900.0°C: 0.7°C		
L	-200.0°C : 900.0°C		0.1°C	900.0 : 1300.0°C: 0.8°C	
		600 : 800°C: 1.5°C			
U	-200.0°C : 600.0°C	0.1°C	800 : 1820°C: 1.1°C		
RTD	PT100 385		-200.0°C : 800.0°C	0.1°C	-200.0 : 0.0°C: 0.7°C
		0.0 : 900.0°C: 0.5°C			
		-200.0 : 0.0°C: 0.7°C			
	PT1000	-200.0°C : 630.0°C	0.1°C	0.0 : 600.0°C: 0.5°C	
				-200.0 : 0.0°C: 0.3°C	
	PT200 385	-200.0°C : 630.0°C	0.1°C	0.0 : 400.0°C: 0.5°C	
				400.0 : 800.0°C: 0.8°C	
				-200.0 : 100.0°C: 0.2°C	
	PT500 385	-200.0°C : 630.0°C	0.1°C	100.0 : 300.0°C: 0.5°C	
				300.0 : 630.0°C: 0.7°C	
Cu10	-10.0°C : 260.0°C	0.1°C	-200.0 : 100.0°C: 0.8°C		
Cu50	-50.0°C : 150.0°C		100.0 : 300.0°C: 0.9°C		
				300.0 : 630.0°C: 1.0°C	
				-200.0 : 100.0°C: 0.4°C	
				100.0 : 300.0°C: 0.5°C	
				300.0 : 630.0°C: 0.7°C	
				-10.0 : 260.0°C: 1.8°C	
				-50.0 : 150.0°C: 0.6°C	

By using ITS-90 temperature scale;The accuracy does not include the error of internal temperature compensation caused by a sensor;

By using temperature scale ITS-90  
Excitation current:  $\pm 0.5 \sim \pm 3\text{mA}$  for Pt100, Cu10, Cu50, add 0.5°C when excitation current is  $\pm 0.1\text{mA} - 0.5\text{mA}$ ;  
Excitation current:  $\pm 0.05\text{mA} \sim \pm 0.3\text{mA}$  for PT200, PT500, PT1000;  
Does not include lead resistance