PSIP787/789 Process multimeter

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- Process Meter is a handheld, battery-operated tool for measuring electrical parameters. It has all the features of a digital multimeter (besides the feature of RTD and TC), it could also output signals of direct voltage, current, resistance, temperature and frequency as well.
- Auto/manual range switch, Measure value display hold
- The thermocouple high accuracy cold-end can auto offset
- Panel auto calibrated
- The function of auto close backlight and auto power-off
- Large LCD include white LED backlight
- It is easy to operation by user, cabinet and solid adapt to be used at locale

Technical data

Measuring function	Range	Measuring range	Resolving power	Accuracy	Remark
DC Voltage	4V	-4.000V~4.000V	1mV	0.2%+4	input impedance: 10MΩ
	40V	-40.00V~40.00V	0.01V	0.2%+4	
	400V	-400.0V~400.0V	0.1V	0.2%+4	
AC Voltage (40Hz~500Hz) (5%~100%RANG)	400mV	0~400.0mV	0.1mV	1%+4	input impedance: 10MΩ ＜100Pf
	4V	0~4.000V	1mV	0.5%+4	
	40V	0~40.00V	0.01V	0.5%+4	
	400V	0~400.0V	0.1V	0.5%+4	
DC Mv Voltage	40mV	-40.00mV~40.00mV	0.01mV	0.5%+6	input impedance:10MΩ
	400mV	-400.0mV~400.0mV	0.1mV	0.2%+4	
OHM	400Ω	0~400.0Ω	0.1Ω	0.2%+4	Plough voltage:0.4V not including the accuracy of down-lead resistance
	4KΩ	0~4.000 KΩ	1Ω	0.2%+4	
	40KΩ	0~40.00KΩ	0.01KΩ	0.2%+4	
	400KΩ	0~400.0KΩ	0.1KΩ	0.2%+4	
	4MΩ	0~4.000MΩ	1KΩ	0.2%+4	
	40MΩ	0~40.00MΩ	0.01MΩ	1%+4	
DC Current	40mA	-40.00mA~40.00mA	0.01mA	0.2%+4	input impedance: 1Ω
	400mA	-400.0mA~400.0mA	0.1mA	0.5%+4	
AC Current (40Hz~200Hz) (5%~100%RANG)	40mA	0~40.00mA	0.01mA	0.5%+4	input impedance:1Ω
	400mA	0~400.0mA	0.1mA	0.5%+4	
	4000uA	0~4000uA	1uA	0.5%+4	
Frequency	50Hz	0~50.0Hz	0.01Hz	0.1%+3	
	500Hz	0~500.0Hz	0.1Hz	0.1%+3	
	5kHz	0~5.000kHz	1Hz	0.1%+3	
	50kHz	0~50.00kHz	0.01kHz	0.1%+3	
	100kHz	0~100.0kHz	0.1kHz	0.1%+3	
Duty cycle	0.1%~99%		0.1%	1%	
Diode test	1V		0.001V	10%	Ploughvoltage:1.1V~1.6V Current of shor: circuit: 0.6Ma
Continuity test	≤50ΩBB		0.1Ω		
Thermocouple*	R	-40℃~1760℃	1℃	0.5%+3(≤100℃) 0.5%+2 (>100℃)	Adopt ITS-90 thermometric scale not including the accuracy of RJC error RJC error:±2°C
	S	-20℃~1760℃			
	K	-200℃~950℃	1℃	0.2%+2 (≤-100℃) 0.5%+1 (>-100℃)	
	E	-200℃~500℃			
	J	-200℃~700℃			
	T	-200℃~400℃			
	N	-200℃~1000℃	1℃	0.5%+3 (400~600℃) 0.5%+2 (>600℃)	
	B	400℃~1800℃			
Thermo resistance*	Pt100	-200℃~700℃	1℃	0.5%+2	PT100-385 thermometric scale,not including the accuracy of down-lead resistance
	Cu50	-50℃~150℃	1℃	0.5%+4	

Output Function

Function	Range	Setting range	Resolving power	Accuracy	Remark
OMH*	400Ω	0~400.0Ω	0.1Ω	0.2%+4	±1mA current not including the accuracy of down-lead resistance
78DCmV	500mV	-50.00mV~550.00mV	0.1mV	0.5%+6	Max.output current: 5mA
79DCmV	100mV	-10.00mV~110.00mV	0.01mV	0.2%+4	Max.output current: 5mA
DCV	5V	-0.5000V~5.5000V	1mV	0.2%+4	Max.output current: 5mA
FREQ	100Hz	1.0Hz~110.0Hz	0.1Hz	0.2%+2	50% Duty cycle 5Vp-p
	1kHz	0.100kHz~1.100kHz	0.001kHz	0.2%+2	
	10kHz	1.0kHz~11.0kHz	0.1kHz	0.2%+2	
Analog transducer XMT	-20mA	0~-22.000mA	0.01mA	0.2%+4	Outside power supply 28V when 20 mA 1KΩ resistance
DCmA	20mA	0~22.000mA	0.01mA	0.2%+4	Outside power supply 15V When 20 mA 400Ω resistance
Thermocouple*	R	-40℃~1760℃	1℃	0.5%+3(≤100℃) 0.5%+2 (>100℃)	Adopt ITS-90 thermometric scale not including the accuracy of RJC error RJC error:±2°C
	S	-20℃~1760℃	0.1℃		
	K	-200℃~1370℃		0.5%+20 (≤-100℃) 0.5%+10 (>-100℃)	
	E	-200℃~1000℃			
	J	-200℃~1200℃			
	T	-200℃~400℃			
	N	-200℃~1300℃			
	B	400℃~1800℃	1℃	0.5%+3 (400~600℃) 0.5%+2 (>600℃)	
Thermo resistance*	Pt100	-200℃~850℃	0.1℃	0.2%+6	PT100-385 thermometric scale±0.1mA not including the accuracy of down-lead resistance
	Cu50	-50℃~150℃			

Note :* only for model 789