



3079K Power Clamp Meter

HVAC Application:

- Check current draw in motors and compressors.
- Use MAX/MIN/Recording in the temperature mode to assess efficiency.
- Test run/start capacitors.
- Confirm low voltage control signals.
- Measure flame safeguard device current draw.
- Confirm power sources
- Analyze temperature and voltage or current data with the aid of the time stamp.
- Insulation test up to 100MΩ.

Electrical Application:

- Check for energized circuits and balance loads.
- 1Ø/3Ø(3P3W/3P4W) Power analyzer.
- Evaluate electrical contacts.
- Capture motor in-rush current readings.
- Determine peak power demand periods.
- Verify line voltage stability.
- Monitor motors and other loads for excess heat.
- Check motor run/start capacitor values.

ELECTRICAL SPECIFICATIONS (23°C±5°C)

AC Current (50Hz to 400Hz) : Trms

Range	Resolution	Accuracy	Sensitivity	Overload Protection
99.99A	10mA	±2% ±20dpts (50, 60Hz)	0.10A	1000A
999.9A	100mA	±4% ±20dpts (40~400Hz)	1.0A	

µA Trms : (AC+DC) (Burden Voltage : 5mV/µA)

Range	Resolution	Accuracy	Sensitivity	Overload Protection
99.99µA	10nA	±1% ±20dpts	0.20µA	600V
999.9µA	100nA		2.0µA	

AC Voltage (50Hz to 400Hz) : Trms

Range	Resolution	Accuracy	Sensitivity	Overload Protection
999.9mV	0.1mV	±1% ±20dpts (50, 60Hz) ±2% ±20dpts (40~100Hz)	2.0mV	600V
9.999V	1mV	±1% ±20dpts (50, 60Hz) ±2% ±20dpts (40~400Hz)	0.020V	
99.99V	10mV		0.20V	
600.0V	100mV		2V	

Input impedance : 3MΩ

DC Voltage

Range	Resolution	Accuracy	Sensitivity	Overload Protection
999.9mV	0.1mV	±1.0% ±20dpts	2.0mV	600V
9.999V	1mV		0.020V	
99.99V	10mV		0.20V	
600.0V	100mV		2V	

Input impedance : 3MΩ

Resistance (Continuity<40Ω on the 999.9Ω range) :

Range	Resolution	Accuracy	Overload Protection
999.9Ω	100mΩ	1% ±10dpts	600V
9.999KΩ	1Ω		
99.99KΩ	10Ω		
999.9KΩ	100Ω		

MΩ :

Range	Resolution	Accuracy	Overload Protection
9.999MΩ	1KΩ	5% ±10dpts	600V
99.99MΩ	10KΩ		

Capacitance :

Range	Resolution	Accuracy	Overload Protection
10.000µF	1nF	1.5% ±5dpts	600V
100.00µF	10nF		
1000.0µF	100nF		
7000µF	1µF	2.5% ±15dpts	

Diode (Continuity<40mV) :

Range	Resolution	Accuracy	Overload Protection
2.000V	1mV	±2% ±1dgt	600V

Temperature (K-Type thermocouple) :

Range	Resolution	Accuracy	Overload Protection
-50°C to 900°C	0.1°C	1% ±1°C	30VAC or 60VDC
-58°F to 1000°F	0.1°F	1% ±2°F	

1Ø/3Ø KW/hp TRUE Power : (PF>0.5 or Ø<60°) (1hp=745.7W)

Range	Resolution	Accuracy	Overload Protection
60.00KW (<100A)	10W	±5%rdg ±20dpts (50, 60Hz)	600VAC/1000AAC
600.0KW (>100A)	100W		

1Ø/3Ø Apparent Power :

Range	Resolution	Accuracy	Overload Protection
60.00KVA (<100A)	10VA	±2.5%rdg ±20dpts	600VAC/1000AAC
600.0KVA (>100A)	100VA		

1Ø/3Ø Phase Angle : (50Hz, 60Hz)

Range	Resolution	Accuracy	Overload Protection
-60° ~ 0° ~ +60°	0.1°	±6.0°	ACV>100V, ACA>10A

Frequency :

Range	Resolution	Accuracy	Overload Protection
40Hz/1KHz	0.1Hz	±0.5%rdg ±2dpts	ACV>0.2V, ACA>6A

Accessory: 9V battery, Carrying Case & Manual



TES ELECTRICAL ELECTRONIC CORP.

7F, No.31 Lane 513, Rui Guang Rd., Neihu Dist, Taipei, Taiwan

Tel : (02) 2799-3660 Fax : 886-2-2799-5099

E-mail : tes@ms9.hinet.net

<http://www.tes.com.tw>

+982165565901

+982144584619

+989034119385

پتروفرهان گستر جنوب

FGJ-NDT.IR

DIGINDT.IR