

WIN***SOURCE*** **ELECTRONICS**

THE DATASHEET OF 126



Symbols

DMM FAQ

1. Is there a way to measure higher current with a TPI DMM?

TPI DMMs (except the 120 and 126) have the capacity to read up to 10A AC/DC. Optional adapters are available for all models to increase the current range. Our shunt adapters are available to increase the range up to 1,000A AC/DC.

2. What other adapters are available for TPI DMMs?

Various adapters including carbon monoxide (A771), pressure (A620/630), and clamp-on low current (A254) are available. Contact TPI for additional information.

3. Which of the TPI DMMs will measure temperature?

All TPI DMMs can measure temperature by using the optional A301 K-Type thermocouple temperature adapter.

4. Which TPI DMMs can measure DC millivolts?

All TPI DMMs measure millivolts. Models are available with 1 or 0.1 millivolt resolution.

5. Which TPI DMMs can measure DC microamps?

The TPI 126, 133, 135, 153, 163, 183, 190, 194, 196, and 440 all have this capability.

6. Which TPI DMMs will measure capacitance?

The TPI 135, 183, 190, 192, 194, and 440 all have this capability.

7. What is continuity?

Continuity refers to a test performed on wires and circuits to see if a break(open) exists. If the wire or circuit is continuous, the resistance reading will be at or near zero. The continuity range on a meter provides audible indication of a continuous circuit, allowing quicker tests without having to take your eyes off the circuit or wire under test.



DMM Selection Guide

Palm Size
100, 120, 122, 126

Full Size
133, 135, 153, 163, 183, 190, 192, 194, 196

True Rms
183, 190, 192, 194, 440

50,000 Count High Resolution
190, 192, 194, 196

Wave Form Display
440

Process Loop Calibration
196

True RMS Plus Waveform
440



1. Determine the maximum over voltage installation category (CAT I ~ CAT IV) the multimeter will be used in and narrow your choice to those meters meeting the requirement. The Category rating for each meter is listed on page 2 in the specifications table.

2. Narrow your choice by selecting meters with the features required for your intended applications. For example, if your applications require a CAT III meter with true RMS, frequency, and RS232 output capabilities, the TPI 183 or TPI190 would be good choices. See applications listed below.

3. Finally, select a meter with enough range, accuracy, and resolution for the tests you will perform. For example: the TPI 183 and the TPI 190 meet your application needs, but you require precision high-resolution measurements. Then the 50,000 count TPI 190 would be the better choice.

APPLICATIONS

Application	Market	Function	100	120	122	126	133	135	153	163	183	190	192	194	196	440
Thermocouples in furnaces and gas appliances	HVAC Electrical Electronic Industrial	DCmV	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Heat anticipator current in thermostats		ACA	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Line voltages		ACV	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Control voltages		ACV/DCV	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Fame safety control current		DCuA	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Heating element resistance		Ohms	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Compressor winding resistance		Ohms	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Contactord and relay coil resistance		Ohms	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Motor run and start capacitors		CAP	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Use bar graph to indicate rapid fluctuations		ALL	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Continuity of wiring		Ohms	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Measure frequency on control and line voltage		Hz	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Measure minimum and maximum of measurements		REC	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Record minimum and maximum of measurements		REC	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Measure temperature*		DCV	⊙	⊙*	⊙*	⊙*	⊙*	⊙*	⊙*	⊙*	⊙*	⊙*	⊙*	⊙*	⊙*	⊙*
Measure True RMS of distorted or non-linear signals		ACV/VACA	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Measure line current up to 10 amps		ACA	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Test continuity of circuit breakers and fuses		Ohms	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Measure voltage of direct drive DC motors		DCV	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Measure power supply voltage		ACV/DCV	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Measure power supply current		ACM/DCA	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
High resolution, high accuracy		ALL	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
High resolution, high accuracy		ALL	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Category IV tests		ACV/DCV											⊙			
Process loop calibration		mA Out														⊙
Power Quality		ACV/VACA														⊙
Audio		ACV/VACA														⊙
Video		ACV														⊙
Logic Tests		LOGIC														⊙
Waveform Display		*AC+DC/V-A														⊙

*Requires either the A301 single input or A312 dual input temperature adapters

See page 3 inside for ranges, specifications, and features.

The Value Leader™

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- [View 126 on WIN SOURCE](#)
- [TPI \(Test Products Int\) Information](#)

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- ✓ Cost Control Management
- ✓ Shortage Management
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