

Test Tools HVACR Pros Trust

Digital Megger for HVACR

The SMG5 can be used to "ohm out" a compressor. The backlight helps in the dark, the slim shape helps in cramped areas, and the long probe tip can reach the windings terminal easily.

Function	Ranges	Best Accuracy/ Best Resolution
Ohms	20 MΩ	2%±2 / 10KΩ
Ohms	2000 MΩ	4%±2 / 1MΩ

Battery 4 pcs 1.5V (AAA size)
 Battery Life 4 hours (continuity) Typical Alkaline.

Megohmmeter Model SMG5

Digital Megger Model SMG5



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SMG5 Megohmmeter



Preventative Maintenance

- 1000 volts DC are supplied by the SMG5 to test the high resistances of compressor insulation. Moisture and other contaminants deteriorate the insulation and can lead to compressor failure.
- Use Megohmmeter measurements on the same equipment over time. Decreasing insulation resistance levels can forecast future catastrophic failure.



Evaluate Compressor Insulation

With wires removed, measure the resistance of insulation between the windings and ground. Compressors tend to fail as their insulation begins to fail. Use manufacturer's suggested values to anticipate compressor failure.

Megohmmeter

Test Compressor Insulation

SMG5

- Helps predict compressor failure over time.
- 1000VDC voltage source.
- Backlit LCD.
- Measures up to 2000MΩ.



One Handed Testing

Use the long probe tip for hard to reach terminals and the short tip probe for better control. Use the test probes and alligator leads to evaluate hard to reach compressor terminals.

Clip alligator lead to ground.



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