

### WHAT IS IT?

Ground Monitors, as defined in mining and industrial operations, continuously verify the integrity of the ground conductor found in the trailing cable for electrical equipment. In the 1970's MSHA mandated the U.S. coal industry to ensure the ground wire remains intact on all electrical machinery used on surface and underground mines. Since 1975, AMR has been a pioneer in ground monitor design and has over 40,000 circuits in use worldwide today.

AMR's GM-300 is intended for high voltage circuits using a pilotwire cable. Ground check systems using the GM-300 are suitable for applications on power systems up to 25kV AC including low and medium voltages starting at 1kV. For power systems over 25kV please contact AMR for recommendations.

In addition to traditional impedance style monitoring, AMR leads the ground monitoring industry with our unique "pilotless" approach continuously monitoring the ground conductor integrity using the three phase conductors and eliminating the need of unreliable pilot wires for a more robust solution.

For more information on pilotless monitoring visit [www.amr-sales.com](http://www.amr-sales.com).



### SPECIFICATIONS

Enclosure	Powder Coated Aluminum
Installation	Front Instrument Panel Mount
Voltage Range	1k VAC - 25 kVAC
Operating Voltage	120 - 240 VAC
Current Consumption	750 mA
Operating Temp	-20 to 70 C
Dimensions	7" W x 9.5" H x 6"D (177.8 mm x 241.3 mm x 152.4 mm)
Weight	6 lbs (2.72 kg)
Humidity	0 to 90% R.H.
Sensitivity	3 ohms
Trip Resistance	+/* 1.5 ohms
Trip Delay	NO
Pilot Voltage	12 VDC
Output	(1) Normally open or Normally Closed contact relay rated 250 VAC @ 10 A
Display	LED Indicators
Backup Battery	OPTIONAL - Rechargeable 12 VDC, 12 Ahr
Test Feature	YES
Warranty	90 days
Certifications	MSHA

### FEATURES AND BENEFITS

- 1kVAC to 25 kVAC operating range
- Operating window of 3 ohms
- Versatile sensitivity adjustment
- Reduced "nuisance" tripping
- LED indicator lights
- Low and high resistance indicators
- Simple troubleshooting
- Test Switch included
- Field replaceable circuitry
- Plug-in relay