

### 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-250 for high voltage circuits is available for pilotwire applications or utilizes our industry leading "pilotless", aka "tone", technology for applications on power systems up to 25kV AC including low and medium voltages starting at 1kV. In pilotless configurations a continuous signal loop is created through the three phase and ground conductors ignoring potential issues caused by pilot wires for a more reliable solution.

AMR also offers traditional impedance style models for applications not suited to pilotless operation. For more information visit [www.amr-sales.com](http://www.amr-sales.com).



### SPECIFICATIONS

<b>Enclosure Rating</b>	NEMA 4x, Powder Coated Aluminum
<b>Installation</b>	Flush or Flange Mount
<b>Voltage Range</b>	1k VAC - 25 kVAC
<b>Operating Voltage</b>	120 / 240 VAC
<b>Current Consumption</b>	250 mA
<b>Operating Temp</b>	-20 to 70 C
<b>Dimensions</b>	6" W x 7.75" H x 8.5"D (152.4 mm x 196.9 mm x 215.9 mm)
<b>Weight</b>	11.25 lbs (5.1 kg)
<b>Receiver CT Dimensions</b>	3.625" OD x 1.25" ID x 1" HT 92.075 mm x 31.75 mm x 25.4 mm
<b>Receiver CT Weight</b>	1.25 lbs (0.567 kg)
<b>Humidity</b>	0 to 90% R.H.
<b>Sensitivity</b>	3 ohms
<b>Trip Resistance</b>	Adjustable up to 75 ohms
<b>Trip Delay</b>	250 ms
<b>Reset Mode</b>	Auto
<b>Transmitter Frequency</b>	1000 Hz +/- 1%
<b>Transmitter Output Current</b>	200 mA
<b>Output</b>	(1) "Fail Safe" Normally Open / Closed Relay Form C - 120 VAC @ 10 A or 240 VAC @ 5 A
<b>Display</b>	LED Indicators, Analog Current Meter
<b>Backup Battery</b>	NO
<b>Test Feature</b>	YES
<b>Warranty</b>	6 months
<b>Certifications</b>	MSHA
<b>Option</b>	Blocking Inductor and High Voltage phase filter for pilotless configuration

### FEATURES AND BENEFITS

- 7.2kV, 15 kV and 25kV AC phase voltages
- Pilotless or pilot wire option
- Continuity monitor (45 ohm trip resistance)
- Time delay (250 ms) reduces nuisance tripping
- Immune to high and low voltage conditions (+10%, -30%)
- Immune to DC and AC stray currents
- Easy installation and maintenance
- Transient protection of all inputs and outputs
- Approved to work with cable lengths to 10,000 ft (3.05 km)
- Reduces cable costs, repairs and downtime
- Only MSHA accepted high voltage pilotless ground monitor in the U.S.A.

*For power systems over 25kV please contact AMR for recommendations.*