

GTRM 100 – Ground Test Remote Monitor

Ventev's GTRM 100 is a small, easy-to-install monitoring device that connects to your site's grounding system creating its own monitoring circuit. When the circuit is interrupted, an alert message will notify the NOC through an Ethernet or contact closure connection. This simple, economical and reliable monitoring solution ensures the site manager is aware of expensive, operational problems such as copper theft, and potential catastrophic failures.



Simple Installation

Install the GTRM inside your equipment cabinet close to a common site ground plate. Connect the GTRM sense wires directly to the ground plate to create the monitoring circuit. Connect the Ethernet cable to your communication system. Or, connect the site ground sensor to the main ground wire to the site to monitor ground health.

Simple Notification

An email or SMS alert message will instantly notify the site manager of an alert status when the sensing circuit is interrupted.

Ground Monitoring

GTRM 100 performs a five-channel ground connection test (using 1-watt pulse test at <12VDC) on each equipment ground location. One clip-on sensor monitors the common ground for the entire site. The GTRM operates by testing the ground system approximately once per second to see if the 1-watt pulse flows on each channel. If the test fails, notification is sent indicating the channel where the test failed. Includes two channels of NO-NC dry alarm contacts (9-32VDC @ 80mA Max).

Features:

- 'Always On' site monitoring
- Monitors five separate ground locations
- Separately monitors common site ground health
- Easy panel mount installation
- Compliant with Surge Immunity IEC/EN 61000-4-5 (1000V, 1.2 us pulse)
- Input voltage range from 9 VDC to 32 VDC

Visit www.tessco.com/go/gtrm for more info.

Device Management:

IP addressable device with Web based interface to configure individual devices remotely or locally

Kit Includes:

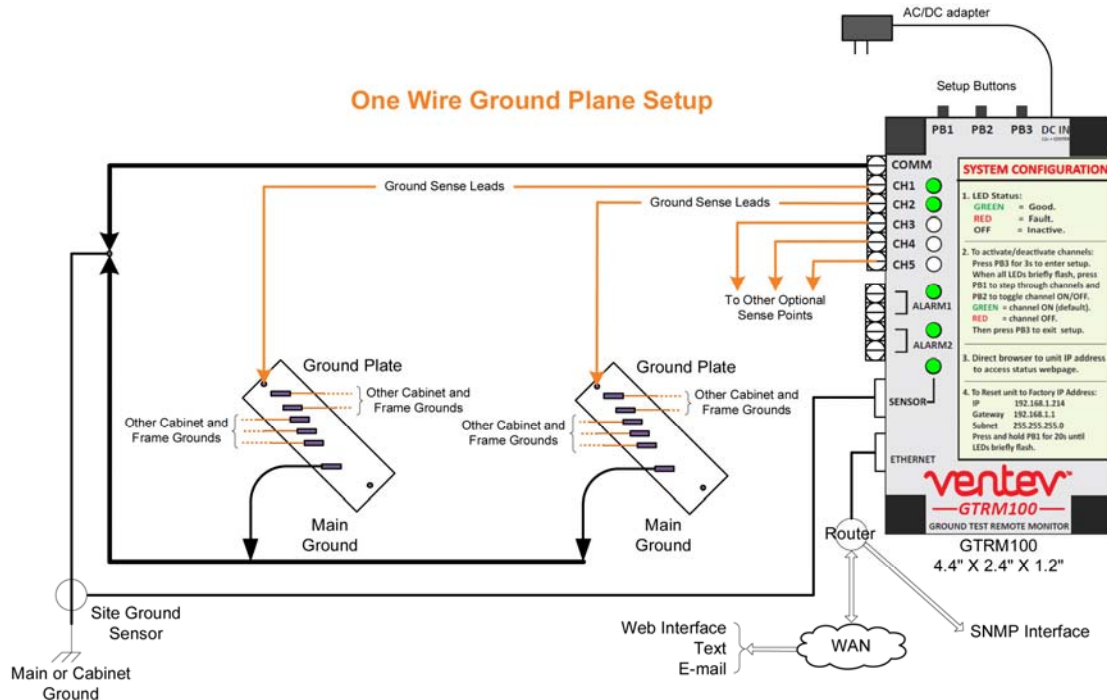
Part No GTRM 100 Kit V3.0:

- GTRM100
- GTRM manual
- Sense wire; 40 ft of 18AWG
- 3 ft Ethernet cable

Accessories to Purchase Separately:

- Part No EPA3.0 - GTRM100 AC Adapter. Converts AC to 24 Vdc
- Part No GCTS10 - Ground cable Test 10. Clip-on ground sensor.

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Site Ground Monitoring*

The clip-on site ground sensor is a torroid that clips into place on the main ground wire leading to the site.*

- The low level currents on the ground wire generate a magnetic field on the inside of the torroid.
- The torroid converts the magnetic field into an electrical current measured by the GTRM.
- If the site ground wire is removed, the ground current is interrupted. This interruption causes both the magnetic field and sensor current to disappear, resulting in a GTRM alarm indication.
- *Site Ground Monitoring is an optional feature. When ordering, please reference Part No GCTS10.

Daily Operation

- No faults in the ground system are indicated by a green LED.
- A fault in the ground system is indicated by a red LED.
- A change in the site ground is indicated by a red LED.
- A restart after power failure maintains any failed channel states, otherwise the GTRM 100 will recalibrate the active channels and continue operation.
- Restart after a theft incident occurred: If the condition clears itself, then the channel will automatically clear itself after 5 to 30 seconds. Otherwise, the GTRM 100 can be cleared remotely via the Web or SNMP interface, or by manually using the Clear and Calibrate button on the GTRM 100.
- Includes two channels of NO-NC dry alarm contacts (9-32VDC @ 80mA Max).

For installation instructions: www.terra-wave.com/shop/ventev-ground-test-remote-monitor-gtrm-p-2557.html