

## GMS - GROUND MONITOR SYSTEM

SAFE, EFFICIENT GROUND MONITORING DEVICE

### DESCRIPTION

An electrostatic system, powder or liquid, relies on well-grounded parts to attain the best coating results and transfer efficiency. The GMS (Ground Monitor System) enhances your electrostatic system to ensure your operation is at optimum performance level. Ransburg's GMS reduces production costs for your finishing system while increasing the quality.

Ransburg's GMS monitors the difference between properly grounded parts, increasing the margin of safety. After scanning the part for an electrostatic charge, the GMS's control unit circuitry monitors several variables and compares the reading against a pre-determined standard. If the readings fall outside of an acceptable range, the notification alarm will activate, allowing adjustments to be made, eliminating rework while increasing quality.

Ensuring a well-grounded part, the GMS not only delivers a high quality finish but also cost savings for your operation. Improper grounding can cause overspray, excess paint build-up, thin film build, ruined parts or a safety hazard. Introducing Ransburg's GMS to your finishing operation will save on production costs while reducing paint waste and cleanup.



### FEATURES AND BENEFITS

- **Complete Monitoring System...**consists of a control unit, ground probe, mounting bracket and low voltage cable
- **Meets Stringent Safety Requirements...**FM approved for use in Class 1, Division 1 painting environments
- **Utilizes Various Input Signals For Part Detection...**limit switch, photo-eye, PLC, robot signal or any 0 Volt ground trigger detection process
- **Advanced Technology...**allows user to adjust control unit for specific field calibration
- **User-Friendly Control Unit Software...**allows end user to control start timer, scan duration timer and alarm outputs
- **Easy To Read Visual Indicators...**users receive simple, precise feedback regarding ground path strength
- **Versatile Model...**compatible with electrostatic systems, plastic or non-metallic conductive surfaces
- **Versatile Ungrounded Part Alert Notification...**unit provides two contact closures that may be interfaced to a PLC, horn or light for ungrounded part alert. Contact closures included are:
  - One FAULT indicator
  - One HIGH VOLTAGE ON indicator

# RANSBURG GROUND MONITOR

## SPECIFICATIONS:

### OPERATIONS:

Probe distance from substrate for accurate monitoring:	4 inches $\pm$ one inch (100 mm $\pm$ 25mm)
Minimum time for measurement and result output signal:	3.5 seconds
Low voltage cable length:	10 meters standard, 15, 20, 25 & 30 meters optional

### CONTROL UNIT:

Input voltage:	110/220 VAC
Probe output:	85 kV maximum
Current output:	100 uA maximum
Height:	5.5 inches (14.0 cm)
Width:	8.5 inches (21.6 cm)
Depth:	7.5 inches (19.1 cm)
Weight:	7.5 lbs. (3.4 Kg)

### PROBE:

#### Replaceable electrode

Length:	12.1 inches (30.7 cm)
Weight:	1 lb 10 oz (.75 Kg)
Mounting bracket weight:	1 lb 3 oz (.65Kg)
Mounting bracket adjustment angles:	0, 30, 60 & 90°



The GMS control unit features easy viewing indicators for setting and tracking.



GMS shown with robot adapter for system integration



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