Electronic Systems > Projectile Tracking

GSQ-109 Scoring Ground Station

Key features

- Bullet and missile operation
- Real-time projectile count
- Miss distance for missiles
- Hardcopy report generation
- User friendly software
- Transportable
- Dual target capable

Meggitt Defense Systems' GSQ-109 series ground stations are automated portable scoring stations designed to receive, process, monitor, record and display scoring data telemetered from radar based scoring sensors during live-fire training and evaluation missions. Mission capabilities of the GSQ-109 include dual-channel bullet and missile scoring that are functions of preloaded software applications in the computer subsystem. The GSQ-109 provides real-time scoring results with hardcopy report generation. It can be configured with dual receivers for L Band, or P Band telemetry frequencies.

The GSQ-109 consists of a telemetry antenna system, dual-receiver/processor assembly, computer, and a printer. Carrying cases designed to withstand rough handling and environmental factors provide the GSQ-109 with transportability to service the most difficult operational sites.

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Specifications

Performance

Projectile scoring rate	3000 rounds per minute with 98% reliability and no data overlapping
Projectile velocity range	244-1829 m/sec (800-6000 ft/sec)
Missile scoring	Automatic missile acquisition with 90% detection accuracy
Missile velocity	244-1829 m/sec (800-6000 ft/sec)
Missile miss distance accuracy	10% of range

Electrical

Receiver	L-Band	P-Band
Input frequency	1435-1535 MHz	300-330 or 400-430 MHz
Noise figure	6 dB (typical)	6 dB (typical)
Input vswr	2:1	2:1
Input power requirements	110/240 V ac	110/240 V ac

Compatible with the following single-channel radar sensors: Microdops and ProTrak

Components

Basic Equipment	GSQ-109
Dual receiver assembly	Housing, power supply, one or two telemetry receivers
Scoring processor	Notebook computer with scoring software (See Note 1)
Mobile printer	Deskjet or similar (Note 1)
Telemetry antenna system	(Note 2)

Note:

1 - Visual depiction may be different from actual hardware
2 - Antennas will be selected at time of proposal based on telemetry frequencies and operational requirements

Specification subject to change - TCO Review # 181

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