

Sabre Acoustic Miss Distance Indicator (SAMDI)



Description

The Sabre Acoustic Miss Distance Indicator (SAMDI) is a multi-role scoring system for gunnery training and weapons assessment for surface and airborne dynamic targets.

SAMDI may be fitted to tow targets, remotely piloted vehicles or drones, sleeve targets, marine (boat or platform) and ground targets. When shots or projectiles are fired at a target, SAMDI transmits the direction and distance of the near misses to the base station which Meggitt displays the results of the shooting in real time. SAMDI is in service with land, naval and air forces around the world for training and/or weapon system assessment.

The equipment is highly portable and does not restrict training maneuvers. For instance the base station is readily installed on a vehicle, vessel or aircraft.

Principle of operation

SAMDI works by detecting the conical shock wave generated by all supersonic projectiles. The location of a passing projectile or supersonic missile is measured by an array of sensors and a processor unit mounted on the target. The data from these is then telemetered to the base station, in a high integrity digital form, where it is automatically analyzed and displayed.

Target Equipment

The SAMDI system uses rugged, solid state, high frequency sensors which are resistant to water immersion. A digital electronics and telemetry system is incorporated for the highest performance and stability. The target processor unit is small, light and consumes little electrical power. The target equipment may be provided in a variety of configurations to allow user installation into a variety of target types.

Features

- Sensor electronics fit all target types
- Portable base station allows simple installation in vehicle, vessel or aircraft
- High resolution miss distance and 12 sector scoring
- Rugged system with waterproof sensors

Operational Benefits

- For Training
Users get immediate feedback of firing performance
Objective measurement of weapon system operator skills
- For Weapon Assessment
High resolution measurement of weapon accuracy

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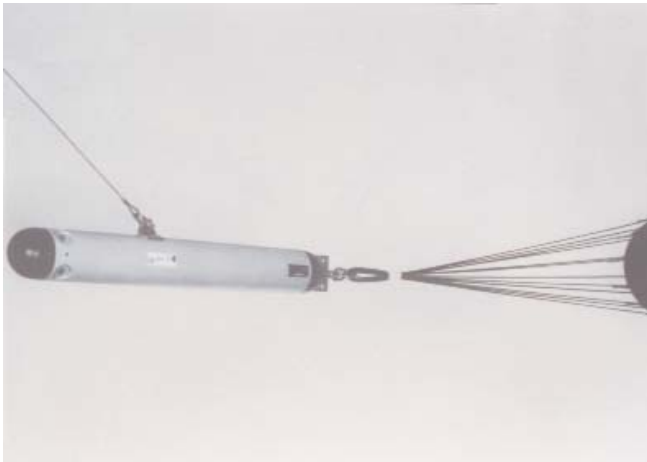
Base station

The base station Type 450 is a compact all-in-one receiving and data presentation unit which is easy to use with menus and prompts to aid the operator. It calculates the miss distances and sectors using data from the target. Target configuration and projectile caliber information data (entered by the user) is saved on an internal hard disk.

Results are printed graphically on a liquid crystal display together with running totals, status and session information. A printed record (provided by a small, built-in printer) may be requested at any time. Scoring data may also be transferred to a personal computer for a more detailed analysis of scoring results.

Specifications

Detection method:	Ultrasound, supersonic projectile/missiles only
Calibre/Diameter:	7.62 mm upwards
Scoring resolution:	30 deg sectors, miss distance in meters and tenths
Rate of fire:	Greater than 6,000 rounds per minute
Telemetry link:	> 1 watt FSK digital data link; 150 - 174 MHz and 400 - 480 MHz
Base station power:	12-28 V DC and 110/240 V AC 30 W
Base station display:	Liquid crystal 640 x 480 pixels
Base station printer:	24 column printer
Base station size:	470 x 360 x 180 mm; Weight 13 Kg
Accessories:	Printer Data storage unit Remote terminal PC software



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