



All our universal 12-sector miss distance indicator (MDI) can be upgraded and equipped with a GPS receiver. With the GPS receiver following features are available:

- Exact registration of time and trajectory of the target when a shot is registered. This data can be exported for more detailed after analysis and post training debriefing.

- Continuous update on the altitude of the target.

This information can be used for instance in training situations when a sea skimming missile is simulated. The altitude information will allow flying the target lower above the sea level and hence improving the quality of the training.

- Improved GTA Scoring results.

- Access to positional data of the target will increase the precision in the calculations of the scoring results.

A number of "firing parameters" will be known (target speed, firing distance and altitude) and don't need to be estimated.

- Plotting of the course of the target.

The location of the target can be plotted in real time in a mapping application. The interface to this application can be in software to

another application in the scoring station or in hardware to an external plotter via a Serial interface, NMEA-0180.

The MDI is a universal type, i.e. it handles all target courses relative the firing gun or missile, i.e. all types of attacking and passing courses. The GPS coordinates, i.e. the MDI position, is linked into the MDI telemetry link and is transmitted every second to the scoring station. The GPS data coming from the MDI is extracted from the scoring station. The MDI position, altitude, speed and gun position coordinate are used in the scoring station when calculating the real\* miss distance. \*(mathematical solution for projectile trajectory relative to target trajectory).

## TECHNICAL DATA

### GENERAL

Power supply	Rechargeable NIMH battery pack
Battery operation time	min. 4 h at +25°C
Supply voltage	+12 VDC
Operation temperature	-30°C to +55°C
Storage temperature	-40°C to +70°C
Weight	Approximately 5,6 kg incl. tow rod

### TRANSCEIVER

Carrier frequency	Fixed frequency within 330-473 MHz
Channel separation	12.5 kHz
Radiated power	typ. 1.0 W
Link type	Half-Duplex
Data transfer rate	Radio 9600 bps
GPS	The GPS data is transmitted every second via the MDI transmitter to the Scoring Station
Optional	Encryption AES128

### DATA

Scoring capacity	6000 rounds per minute, momentarily more
Scoring Resolution	12 sectors (1 sector = 30°)
Scoring calibers	5.56 mm to 5"+ and missiles
Distance accuracy	±1 m or max ±15% of the actual miss distance, whichever is the greatest
Angular accuracy	±15°

### UPLINK

Frequency	Fixed frequency within 330-473 MHz
Capability	<ul style="list-style-type: none"><li>• Turn on/off MDI</li><li>• Sensitivity setting, 6 steps</li><li>• Setting of downlink channel</li><li>• Lamp control on/off</li></ul>