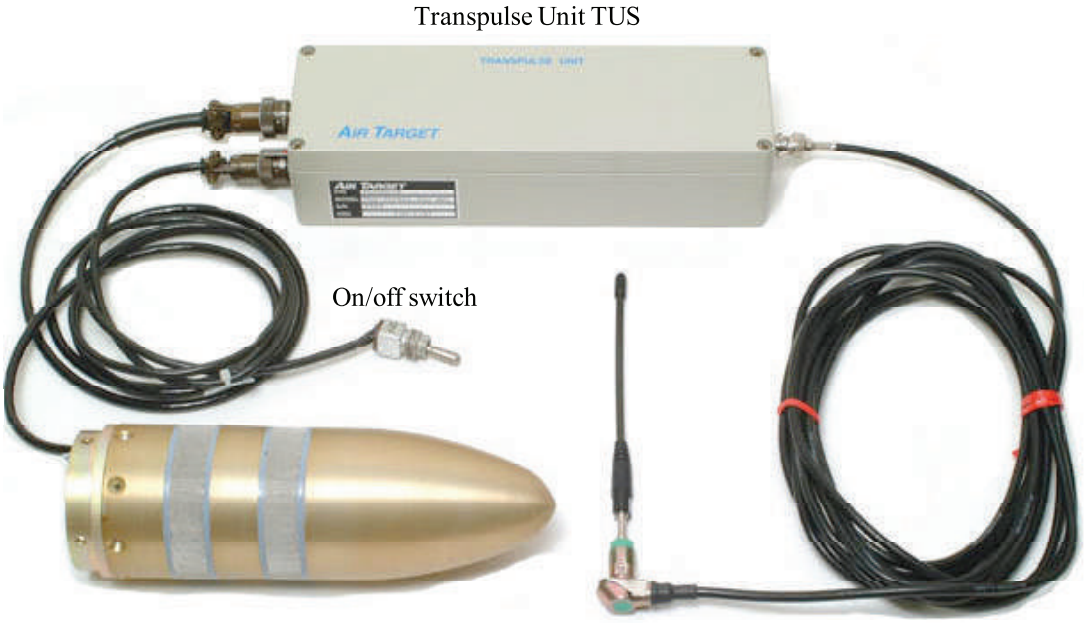
AIR TARGET

MISS DISTANCE INDICATOR AS-133/12U



The universal 12-sector Miss Distance Indicator MDI AS-133/12U is intended to be installed in both hard targets and UAVs (Unmanned Aerial Vehicles).

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 12-sector MDI AS-133/12U detects acoustically the shock wave generated by the passing supersonic projectile. The miss distance is determined by the amplitude of the shock wave while the angular position is determined from the hit order between the indicator´s different pressure sensors.

The miss distance and angular position of the projectiles are measured in real time and the data is transmitted as raw data signals via the special designed VHF/UHF transmitter to the scoring station.

Since raw data is used, all calculations are made in the scoring station.

A recalculation of the scoring result, with later more accurate parameters, can easily be made in the scoring station for further improved accuracy.

The MDI consists of a microphone nose, a transpulse unit, cables and an antenna. Several antenna types are available to fit the most common targets or UAVs on the market.

The MDI is powered from a rechargable battery which is housed in the tranpulse unit.

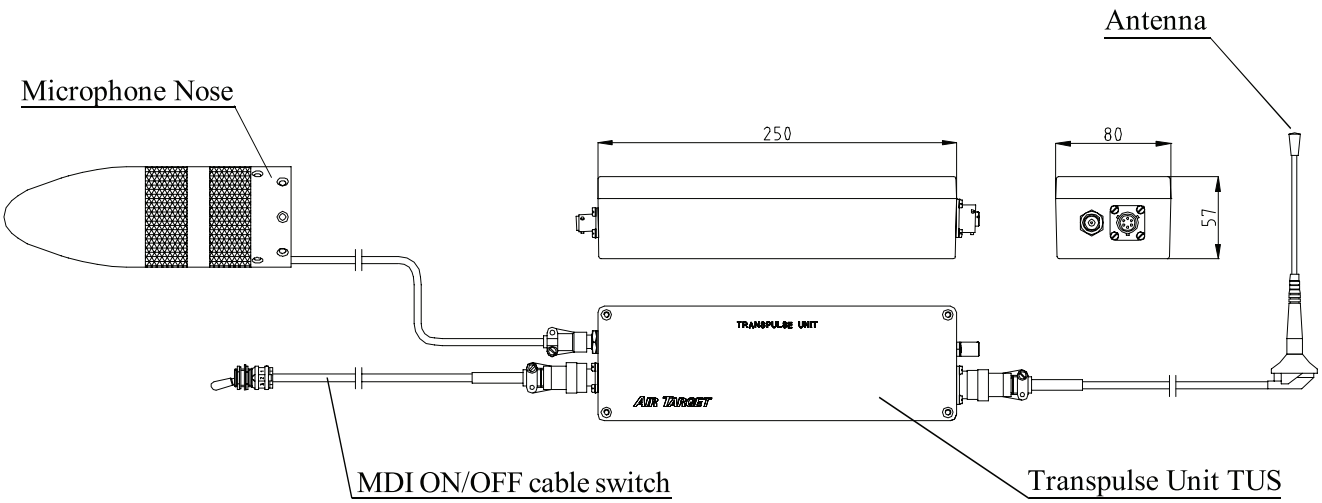
The transpulse unit is waterproof.

Hayes TRX-2 and Southwest Aerospace TDK-39 are examples of targets where the MDI AS-133/12U has been installed in.

Air Target´s products can very easily be modified to meet our customers´ requirements.

AIR TARGET

TECHNICAL DATA



GENERAL

Power supply	Rechargable 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
Total weight	Approx. 3.0 Kg

DATA

Scoring capacity	6000 rounds per minute, momentarily more
Scoring calibers	5.56 mm to 5"+ and missiles
Distance accuracy	min. ±1 m or ±15 % of the actual miss distance, whichever is the greatest
Angular accuracy	±15°
Sensitivity	6 selectable ranges

TRANSMITTER

Carrier frequency	400- 470 MHz, others optional
Channel separation	50 kHz
Radiated power	Min. 0,8 W
Carrier frequency deviation	2.5 kHz ±0.5 kHz
Modulation	2-level FSK 4800 baud
CRC	Cyclic Redundancy Checksum, a method for ensuring data quality

Air Target Sweden AB
Österögatan 1B
SE-164 40 Kista | Sweden

Tel: +46 8 730 2233 | Fax: +46 8 730 3424
E-mail: info@airtarget.se | Web: www.airtarget.com
VAT Reg. No. SE556097313201