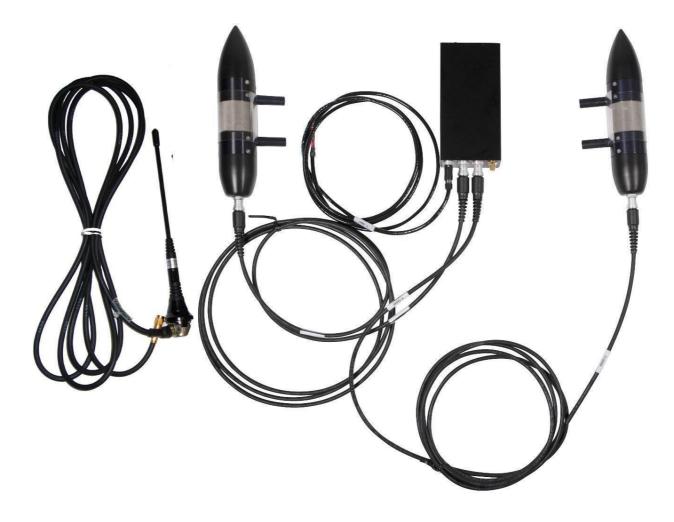


MISS DISTANCE INDICATOR AS-113/12U/TUP-30



The universal 12-sector Miss Distance Indicator MDI AS-113/12U/TUP-30 is intended to be installed in 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 target courses.

The 12-sector MDI 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 (sector) is determined from the hit order between the indicator's different pressure sensors.

The miss distance and sector of the projectiles are measured in real time and transmitted as raw data via the special 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 two Small Microphone Clusters SMC-3/left and right, a Target Unit Processor TUP-30, cables and an antenna.

Several antenna types are available to fit the most common UAVs on the market.

The MDI is powered from a rechargeable battery which is housed in the TUP-30. Air Target's products can very easily be modified to meet our customer's requirements.

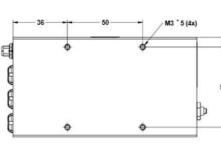


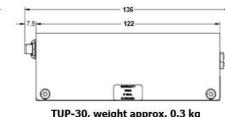
TECHNICAL DATA

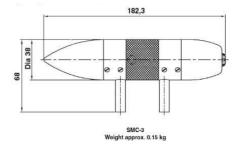


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TUP-30, <u>weight</u> approx. <u>0.3</u> kg

All dimensions in millimeters NOT TO SCALE

GENERAL		DATA		
Power supply	External	Scoring capacity	6000 rounds per minute, momentarily	
Operation voltage	10 V to 14 V, typ. 12 V		more	
Operation temperature	-30°C to +55°C	Scoring calibers	5.56 mm to 5"+ and missiles	
Storage temperature	-40°C to +70°C	/	±1 m or max ±15%	
Total weight TUP-30 weight SMC-3 weight	Approx. 0.7 kg Approx. 0.3 kg Approx. 0.2 kg		(on theaverage) of the actual miss distance, whichever is the greatest	
		Angular accuracy	±15°	
		Sensitivity	6 selectable ranges	
TRANSCEIVER				

Carrier frequency	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
Optional	Encryption AES128

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