

HF Active Monopole

100 kHz – 60 MHz

Product Code: MONO-A0029

VERSION: 2.4



SPECIFICATIONS:

Electrical:	
Frequency range	100 kHz – 60 MHz
VSWR	< 2.0:1
Nominal input impedance	50 Ω
Connector	BNC female
Feed power handling	Monitoring
Elevation 3 dB beamwidth	117° ($\pm 5^\circ$)
Azimuth 3 dB beamwidth	360° ($\pm 5^\circ$)
Power supply:	
	12 – 30 V DC, 100 mA power supply is required (not supplied as standard). This source power is normally supplied by the relevant receiver/amplifier RF input connection.
Mechanical:	
Length x base diameter	1500 mm x 150 mm
Weight	4 kg
Mounting method	PCD – 115 mm: 6 x 6 mm holes
Environmental: designed to meet the following specifications	
Wind survival	160 km/h
Temperature (operational)	- 30 °C to + 55 °C (no icing)
Shock	40 G for 10 ms
Thermal shock	- 20 °C to + 70 °C: 10 cycles
Water ingress rating	IP 65 (NEMA 4X)
Lightning and ESD protection	Yes

PRODUCT FEATURES:

- Wide HF frequency range coverage (100 kHz to 60 MHz)
- Rugged and compact
- Quick erection time for tactical applications
- Glass fibre insulated radiator

APPLICATIONS:

- HF monitoring antenna

PRODUCT DESCRIPTION:

This HF active monopole whip antenna is designed for easy mounting on vehicles and structures with a groundplane. It can also be used for fixed applications where there is no groundplane as the mounting is on top of a mast. For this application there are ground radials that screw into the base at 90 degrees to the mast.

This antennas' radiation pattern is suitable for medium to long range HF monitoring.

The antenna uses an operational amplifier as the active component for the antenna which allows it to operate over a wide HF frequency range of 100 kHz to 60 MHz.