



FAA 321

Direction-finding antenna

MF

HF

0.5 MHz – 30 MHz

The FAA 321 is an active ferrite direction finding antenna supporting the Watson Watt direction finding method. It features high bearing accuracy for ground waves across 0.5 to 30 MHz. Developed with a focus on weight, size, mobility and technical characteristics this antenna can be installed easily on most platforms.

TECHNICAL HIGHLIGHTS

- active ferrite antenna with low noise amplification
- high sensitivity across the entire frequency range
- lightweight and slim design
- designed for car rooftop deployments

CUSTOMER ADVANTAGES

- high degree of sensitivity is achieved by capturing the magnetic part of the wave via a small antenna aperture
- enables HF direction finding whilst in transit or on mobile mast systems
- small footprint and weight make it ideal for roof mounted applications

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RECEIVER

MONITORING
RECEIVER

DIRECTION-FINDING
ANTENNA

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CONTROL &
ANALYSIS SOFTWARE

FAA 321	
DF frequency range	0.5 MHz – 30 MHz
Subrange VLF/LF/MF	n/a
System sensitivity	n/a
DF accuracy	n/a
Subrange MF/HF	0.5 - 30 MHz
System sensitivity	0.5 MHz – 6 MHz typ. 10 μ V/m 6 MHz – 30 MHz typ. 3 μ V/m
DF accuracy	$\leq 2^\circ$ RMS
Subrange VHF	n/a
System sensitivity	n/a
DF accuracy	n/a
Subrange VHF/UHF	-
System sensitivity	n/a
DF accuracy	n/a
Subrange UHF	-
System sensitivity	n/a
DF accuracy	n/a
Subrange SHF	-
System sensitivity	n/a
DF accuracy	n/a
DF method	Watson-Watt
Antenna type	active
Antenna configuration	cross - loop
Antenna elements	8
Channels	5
Polarisation	vertical
Omnidirection monitoring Antenna/output	n/a
Operating temperature	-25° to +55° C
Storage temperature	-40° to +75° C
Environmental protection	IP 55
Maximum wind velocity (w/o icing)	180 km/h (50 m/s)
Power consumption	15 V DC, I _{max} = 250 mA
Weight	10 kg
Diameter	440 mm
Height	45 mm – 70 mm
Required space	car (rooftop)
Installation	car (rooftop)/tripod
Set-up time	fixed installation/ 10 min