



Microwave Directional Antenna AC008

1 GHz to 26.5 GHz

The broadband Microwave Directional Antenna AC008 is used for detecting RF signals and for field-strength measurement in the range from 1 GHz to 26.5 GHz.

The small dimensions and the light weight of the antenna permit easy transport, troublefree installation in open terrain or on shelters and reliable

operation in complex, remote-controlled radiomonitoring systems.

The AC008 consists of a 90-cm-reflector with a broadband feed at the focus and a manually operated biaxial positioning device. The position range (unlimited range of rotation in azimuth) allows not only lining up of the antenna on terrestrial targets but

also orientation on geostationary satellites from the majority of latitudes. Three different log-periodic antennas are available as feeds.

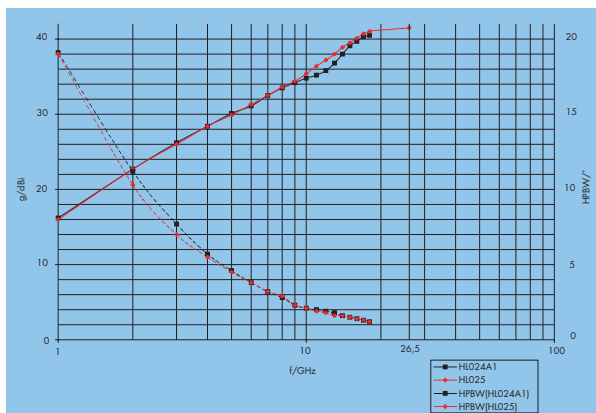


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On the rear of the reflector, a transverse support with several threaded holes is provided for mounting a platform to accommodate customer equipment. A sighting telescope that can be attached to the side of the reflector enables the antenna to be directed to a known point without complicated searching.

The accessories that are available include a tripod, a sighting telescope, and control and microwave cables. A control unit is offered for the selection of the desired polarization if the AC008 is fitted with a dual-linear feed and a polarization-switching network. Monoaxial and biaxial rotating devices are available in line with the requirements of the customer.

Feeds	Polarization
HL025	linear, 1 GHz to 26.5 GHz horizontal, vertical or 45° oblique (depending on position in reflector)
HL024A1	dual-linear, 1 GHz to 18 GHz horizontal and vertical at the same time
HL024S2 (with polarization- switching network)	dual-linear, 1 GHz to 18 GHz horizontal, vertical, circular clockwise or counterclockwise (depend- ing on remote selection)



Frequency-dependent gain and half-power beamwidth of AC008 with feeds HL024A1 and HL025 (reference: isotropic radiator)

Specifications

Frequency range	1 GHz to 26.5 GHz
Positioning range	n x 360°
Azimuth	-6° to +44°
Elevation	dependent on feed
Polarization	16 dBi to 40 dBi (1 GHz to 18 GHz)
Gain	41.5 dBi (at 26.5 GHz)
Half-power beamwidth	19° to 1.2° (1 GHz to 18 GHz)
	0.8° (at 26.5 GHz)
Characteristic impedance	50 Ω
VSWR	≤2.5
RF connector	SMA female
Dimensions	
Diameter	0.9 m
Depth	0.4 m (folded up for transport)
Weight	12 kg (without tripod)

Ordering information

Order designation	Microwave Directional Antenna AC008
AC008 with dual-linear feed	671.5017.02
AC008 with linear feed	671.5017.03
AC008 with dual-linear feed and polarization-switching network	671.5017.04

Feeds (available separately)

Crossed log-periodic antenna	HL 024A1	650.7510.03
Crossed log-periodic antenna (with polarization-switching network)	HL 024S2	4052.1003.02
Log-periodic antenna	HL 025	671.5317.02

Recommended extras

Tripod	AC008-Z	671.5117.02
Sighting telescope	AC008F1	751.6919.02
Control unit	GB016	4056.7006.02
Control cable between HL024S2 and GB016		
Length: 5 m	HL024W1	4052.1203.02
Length: 10 m	HL024W1	4052.1203.03
Microwave Cable (1 GHz to 26.5 GHz), with two SMA male connectors		
Length: 5 m	AC008W2	751.6931.04
Length: 10 m	AC008W2	751.6931.05



Microwave Directional Antenna AC008 collapsed for transport



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