

Rotatable Log Periodic Antenna 3.8 - 30 MHz

Product Description

The HLR series are high performance, rotatable log periodic antennas designed to provide reliable link establishment over short, medium and long distances.

Features & Benefits

- Characterized by high gain performance, the HLR antennas are capable of providing coverage in excess of 5000kms.
- The broadband feature enables transmission over 3.8-30MHz .
- A high performance rotary joint enables continuous rotation with a complete 360° turn achieved in two minutes.
- A unique design feature of the HLR antenna series is the ability to raise and lower the antenna without the use of cranes or special erection towers.
- The rugged design of the antenna ensures its suitability for cyclonic wind velocities.



Specifications

Electrical

Frequency range, [MHz]	3.8 - 30
Gain, [dBi]	8.5-12 (see gain curve)
Polarisation	Horizontal
Azimuth Beamwidth	72 degrees typical
Impedance, [ohms]	50
Input connector	
1kW (50 ohms)	N-type
10kW (50 ohms)	1 5/8" EIA
Maximum input power, kW	1kW Average (4kW PEP), 10kW Average (25kW PEP)
VSWR	1.5:1 typical, 2:1 max (see VSWR curve)
AC Power Supply	3 phase. 115/230 V 50/60 Hz
AC Power	2kVA
Antenna Rotation	360 deg continuous

Mechanical

Mast Height, [m]	30
Mast Guy Radius, [m]	25
Wind Rating survival no ice, [km/h]*	289 and 306 (two different models)
Temperature range [deg C]	-30 to +60

Shipping information

	Packed weight [kg]	Packed size [mm]
Antenna	TBA	TBA
Mast	TBA	TBA
T1000-520 balun	4	included with antenna
T10K-520 balun	70	920 x 660 x 570

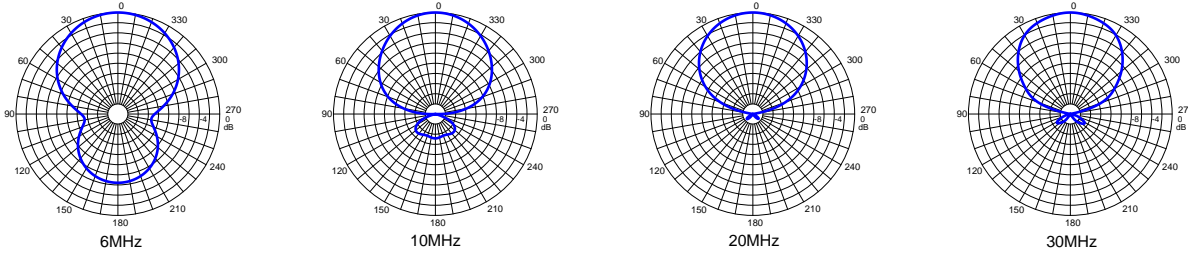
* Wind ratings are calculated to AS1170.2:2011 Australian Standards:

All information contained in the present brochure is subject to confirmation at time of ordering

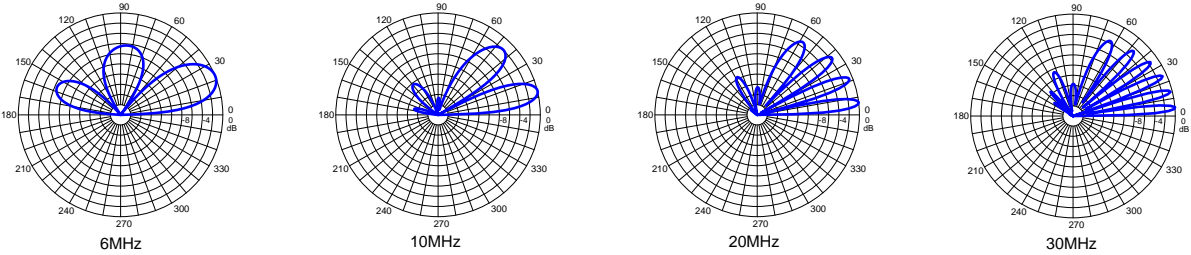
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Patterns over average ground

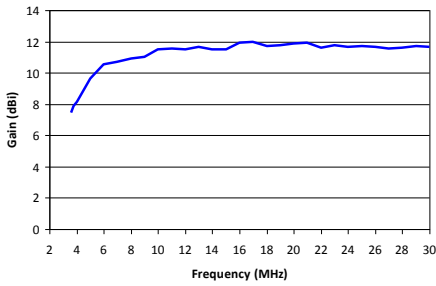
Azimuth Radiation Patterns



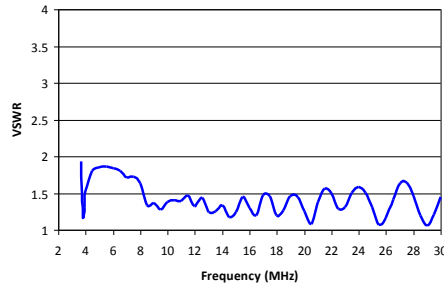
Elevation Radiation Patterns



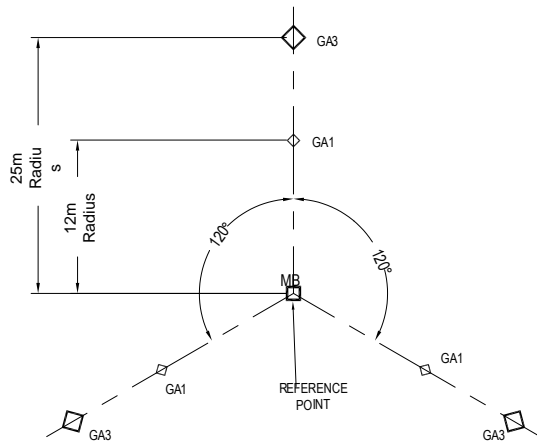
Gain



VSWR – over average ground



Antenna ground dimensions



Ordering Information

1. Specify Model
2. Specify Input Impedance/Power
3. Specify Mast Requirements

HLR430	• 1	0	1
↑ Model	↑ Input Impedance & Power	↑ Always 0	↑ Mast Requirements
	1 50 / 1kW		0 None
	2 50 / 10kW		1 Mast

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