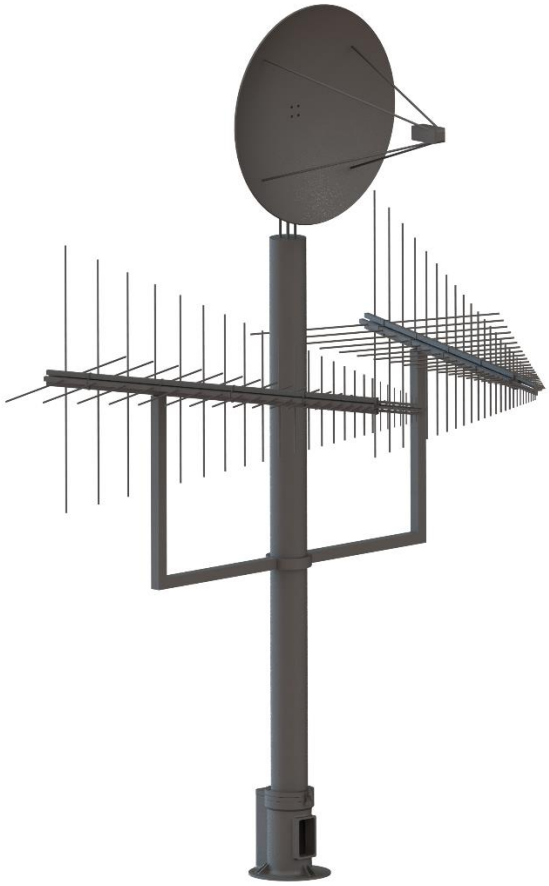
Monitoring System with Azimuth Positioner

100 – 8000 MHz

VERSION: 1.5

Product Code: SYST-A0010



PRODUCT FEATURES:

- Two wideband dual polarised LPDAs on a structure
- High gain dish antenna
- Azimuth positioner used for positioning and scanning all angles
- Internal rotary joint for 360° coverage
- Low-loss internal cables
- Combining VP and HP LPDA outputs with low loss combiner for improved directionality.
- Local or Remote interface to Azimuth positioner via Graphical User Interface.

APPLICATIONS:

- Wideband monitoring
- Modes of operation:
  - Spinning mode (360 degrees)
  - Sector scan mode
  - Fixed position mode

SPECIFICATIONS:

Electrical: LPDA-A0108	
Frequency range	100 – 3000 MHz
VSWR	< 2.5:1
Gain	> 6 dBi over 95% of the frequency band
Polarisation	Dual linear (VP & HP)
Power handling	Receive only.
Electrical: Dish	
Frequency range	2000 – 8000 MHz
VSWR	< 2.3:1 (typical)
Gain	25.5 – 34.7 dBi
Power handling	Receive only
Dish size	1.2 m diameter
3dB beamwidth	2 – 8°
Connector	N-type female
Electrical: Azimuth Positioner	
Supply voltage	120/240 VAC
Serial interface	RS422
IP Addressable (remote operation)	Ethernet Interface
Control protocol	ASCII commands
Software Interface	Graphical User interface
Rate of turn	30°/s
Rotation	360° no limits
Rotary joint	Internal 4-channel rotary joint
Rotational speed of each Modes:	
Spinning mode	0 – 15 rpm
Sector scanning mode	0 – 5 rpm
Mechanical:	
Height of stack	< 5.0 m
Turning radius	< 2.0 m
Crane height required	5.5 m above mounting base
Total mass	230 kg
Mounting	Circular array of equispaced mounting holes at base
Environmental: designed to meet the following specifications	
Temperature range	-20 ºC to +55 ºC
Humidity	0 – 95%
Rain and water	Waterproof; drain holes
Maximum wind speed	120 km/h

Updated 2023-12-20

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Outline Dimensions: