

**SP4402-SF2SNF** Enclosed log periodic data system antenna, 8 dBd, 800-1000 MHz

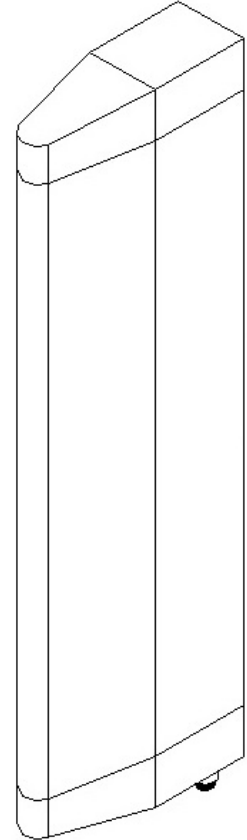
Also referred as: SRL441-2P

- Compact radome-enclosed log-periodic antenna for SCADA/telemetry application.
- Light but rugged ABS radome provides protection from snow, ice and environmental hazards.
- 200MHz bandwidth. Ideally suited for PTP, PMP and receive-only applications.

The SP4402 series of antennas are a compact, radome-enclosed log-periodic antenna specifically designed for use in SCADA/telemetry applications.

The rugged ABS radome protects the antenna from snow and ice accumulation which can compromise the performance of the antennas. The compact profile makes them inconspicuous and easy to mount. They can be mounted directly to a wall or data-terminal housing, or to a mast, pipe or other structure.

Rugged but light, the SP4402 imposes a very modest wind load and can be expected to survive very severe environmental conditions.



Antenna may not appear exactly as picture.

### Electrical Specifications

Frequency Range	MHz	800 to 1000
Bandwidth	MHz	200
Connector		N-Female
Gain (nominal)	dBd (dBi)	8 (10.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Directional
Horizontal beamwidth (typ)	degrees	90
Vertical beamwidth (typ)	degrees	33
Average Power Input (max)	W	100
Lightning protection		DC ground
Front-to-back ratio (typ)	dB	25

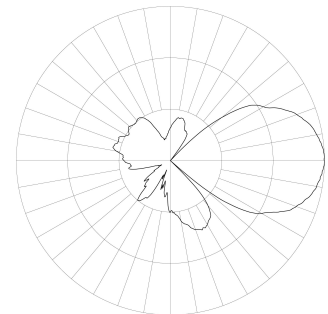
### Mechanical Specifications

Width	in (mm)	2.88 (73)
Depth	in (mm)	8.5 (216)
Length/ Height	in (mm)	22.5 (572)
Radiating element material		prntd circuit bd
Radome material		ABS (white)
Weight	lbs (kg)	6 (2.72)
Mounting Hardware (Included)		Clamp167
Shipping dimensions	in (mm)	12x16x37 (305x406x940)
Mounting configurations		universal

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.4 (0.13)
Wind Loading Area (1/2" ice)	ft² (m²)	1.6 (0.15)
Rated wind velocity (no ice)	mph (km/h)	100 (161)
Rated wind velocity (1/2" radial ice)	mph (km/h)	80 (129)
Lateral thrust (100 mph No Ice)	lbs (N)	56 (249.1)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	22 (29.7)

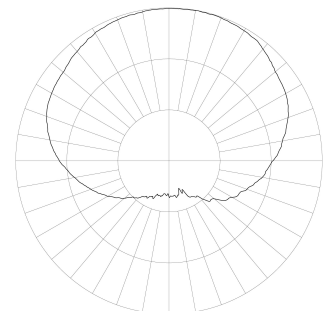
### SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation  
Relative Gain - 10 dB per Division

### SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Azimuth  
Relative Gain - 10 dB per Division