

## Section 7

### DATA LINK ANTENNAS

Updated 22 February 2011

## CP2400-15 Right-Hand Circularly Polarised End Fired Point-To Point ISM Band

**Frequency**  
2.4 – 2.5 GHz

**Bandwidth**  
Full Band



**CP2400-15 is a directional right-hand circularly polarised end fired helical antenna specifically designed for point-to-point data communications across the 2.4 to 2.5 GHz ISM Band.**

Circularly polarised antenna systems inherently cancel out unwanted reflections making this model the preferred choice for 2.4 GHz ISM band data transmissions.

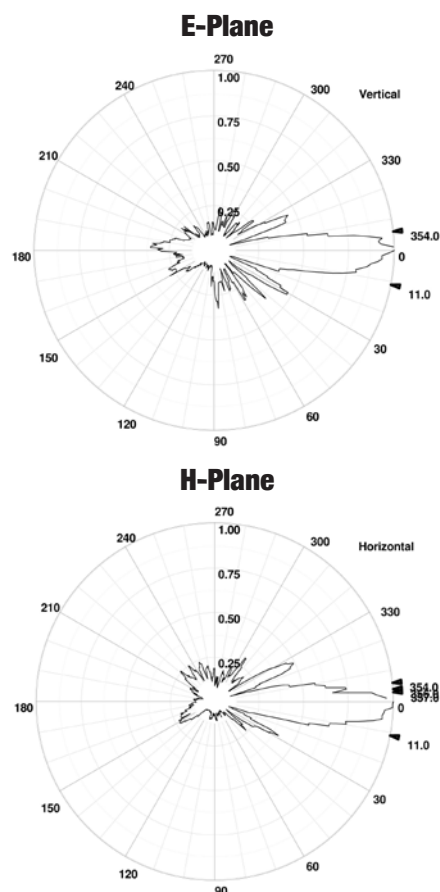
Construction features copper internals and a unique reduced size ground plane. This allows all elements to be enclosed inside a compact white fibreglass radome providing low wind loading.

1.12 metres long, the antenna delivers 17.1 dBi gain. The N-Female connector located at the base of the high quality stainless steel mount tube is rated for up to 50 watts input power.

The **UB2SS** stainless steel right-angle clamp is recommended for mounting.



SPECIFICATIONS	CP2400-15
<b>Construction</b>	Copper internals, white fibreglass radome, stainless steel mount tube
<b>Frequency</b>	2.4 to 2.5 GHz full band
<b>VSWR</b>	Less than 1.5:1 across the full band
<b>Tuning</b>	Factory
<b>Polarisation</b>	Right-Hand Circular
<b>Circularity</b>	< 2 dB
<b>Gain</b>	17.1 dBi
<b>Maximum Power</b>	50 Watts
<b>Impedance (Nom)</b>	50 Ohms
<b>E-Plane</b>	19 degrees
<b>H-Plane</b>	17 degrees
<b>Front-to-Back Ratio</b>	15 dB
<b>DC Grounding</b>	Yes
<b>Connector</b>	N-Female at base of the mount tube
<b>Overall Length</b>	1.12 metres
<b>Weight</b>	1.5 kg
<b>Mount Tube Dimensions</b>	50 mm diameter x 220 mm
<b>Mounting Clamp (Not Supplied)</b>	1 x <b>UB2SS</b> stainless steel right-angle clamp is recommended for mounting to a mast between 20 mm and 50 mm in diameter



### Important Installation Note

*The CP2400-15 antenna has 2 drain holes in the fibreglass radome.*

*It is important to ensure these drain holes are facing downward upon installation.*