

# LARGE LOOP ANTENNA

RF300

## For EMC Emissions testing of Luminaires to EN55015

- ▼ Fully compliant with EN55015.
- ▼ Complete 3 axis design.
- ▼ Simple to erect.
- ▼ Fully calibrated.
- ▼ Low cost.
- ▼ Can be used with any EMC analyser or receiver.



The RF300 is a fully compliant, calibrated 2 metre large loop antenna manufactured to comply with European product specific standard EN55015 section 7.2 and annex B (EN55015 is specific to Luminaires).

The calibrated frequency range of the RF300 is 9KHz to 30MHz and each antenna is supplied complete with antenna factor data so that it can be used with any EMC receiver or spectrum analyser capable of antenna factor compensation.

The performance of the loops is matched to the 'ideal' loop curves as shown in EN55015 fig B4 using the prescribed test set-up.

The RF300 is a complete 3 axis antenna with a switching unit to select each loop in turn. The loops are 2 metre in diameter with the lowest point 0.5 metres above ground and are fitted with specially designed current transducers in fully screened housings.

The main framework is designed in wood with 25mm diameter plastic tubing for the loops.

When erected, a 2 metre large loop antenna is a surprisingly large item so for ease of transportation and storage, the RF300 is designed to be collapsable down to sub units of convenient size.

When used with the EMCEngineer software supplied with the Laplace test kits, the software will automatically compensate for the antenna characteristics and display the EN55015 limits corrected for 2 metre loops.

## SPECIFICATION

<b>Design:</b>	Fully compliant with EN55015.
<b>Loops:</b>	Triple independant loops, 2 metre diameter.
<b>Sensors:</b>	Matched inductively coupled.
<b>Selector:</b>	Loop selection by patch panel switch.
<b>Output:</b>	50ohm BNC.
<b>Calibration:</b>	Each axis tested and correction data included with antenna.
<b>Antenna factor:</b>	Matched to EN55015, figure B4.
<b>Power reqd:</b>	None.
<b>Physical:</b>	
<b>Height:</b>	2.6 metres.
<b>Width (X)</b>	2.1 metres.
<b>Width (Y)</b>	2.1 metres.

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Other EMC products from Laplace cover the complete range of emissions test equipment, including analysers and LISNs.