BROADBAND ANTENNAS

High performance EMC antennas to cover the range 30MHz - 4GHz

- One antenna covers complete band C and D (30MHz - GHz)
- Compact antenna for 700MHz - 4GHz
- Supplied with calibration data
- Excellent sensitivity, ideal for EMC testing
- Vertical and horizontal polarisation

COMPREHENSIVE The RF200 is designed to cover the whole range from 30MHz to 1GHz in one sweep. No need to change antenna part way through the scan.

CALIBRATION The RFxx design is fully calibrated on the 10m OATS site at NPL. This data is included with each antenna. For emissions measurement, the RF200 is used in conjunction with the SA1020 pre-amplifier. This ‘head’ amplifier improves sensitivity and decouples the output lead from the antenna, avoiding spurious cable influences on the results.

The RFxx range are specifically designed for general use as EMC emissions measurement antennas. They combine excellent broadband characteristics with high sensitivity and sturdy construction.

Although primarily used with the Laplace range of analysers and receivers, they can be used with any other receiver and are supplied with full calibration data so that antenna factors can be entered into any third party system.

In order to achieve optimum performance stability, the RF200 is designed to work with the SA1020 pre-amplifier, located at the head of the support. This improves sensitivity and ensures that cable configuration does not affect results.

The RF200 is supplied complete with rigid stand and the RF230 is complete with an all plastic miniature tripod.
**Broadband Antennas - Specifications**

### RF200
- **Frequency range**: 30MHz – 1GHz
- **Antenna factor**: See above. Data issued with each antenna
- **Generic Calibration**: Measured at the NPL 10metre EMC test site at Teddington, London.
- **Connector**: BNC
- **Nominal impedance**: 50 ohm
- **RF Output power**: 100W
- **Ancillaries**: SA1020 pre-amplifier.
- **Antenna type**: Modified log-periodic
- **Size**: Length: 1.7m
  - Across elements: 1.6m
- **Construction**: Tubular Aluminium main beam
  - Anodised aluminium elements
- **Stand**: Adjustable height: 1m to 2.1m
  - Tubular fibreglass/epoxy elements
  - PVC/nylon mountings
- **Included**: Antenna, Stand, 5m BNC – BNC output cable, Element assembly tool, User manual with assembly instructions, Calibration data.

### RF230
- **Frequency range**: 700MHz—4GHz
- **Antenna factor**: See above, Data issued with each antenna
- **Generic Calibration**: Individually calibrated at test laboratory
- **Connector**: SMA
- **Nominal impedance**: 50 ohm
- **RF Output power**: 100W
- **Ancillaries**: Carry case
- **Antenna type**: Log-periodic
- **Size**: 34cm x 20cm
- **Construction**: PCB with outer cover
- **Stand**: Miniature tripod
- **Included**: Antenna, Hard carry case, 5m SMA—BNC lead, Tripod, Calibration data.

Available from:

**LAPLACE INSTRUMENTS LIMITED**
3B, Middlebrook Way, Holt Road, Cromer, Norfolk  NR27 9JR. UK
Tel: +44 (0)1263 51 51 60
Fax: +44 (0)1263 51 25 32
E-mail: tech@laplace.co.uk
Website: www.laplace.co.uk