



INSTRUCTION MANUAL

LOG PERIODIC

ANTENNA

MODEL LPA-30S

200 MHz - 1 GHz

INSTRUCTION MANUAL

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LOG PERIODIC

ANTENNA

300 MHz - 1 GHz

ELECTRO-METRICS

MODEL LPA-30S

SERIAL NO: N/A

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WARRANTY

This Model LPA-30S Log Periodic Antenna is warranted for a period of 12 months (USA only) from date of shipment against defective materials and workmanship. This warranty is limited to the repair of or replacement of defective parts and is void if unauthorized repair or modification is attempted. Repairs for damage due to misuse or abnormal operating conditions will be performed at the factory and will be billed at our commercial hourly rates. Our estimate will be provided before the work is started.

DESCRIPTION AND USE ELECTRO-METRICS MODEL LPA-30S LOG PERIODIC ANTENNA

1.0 Description

The LPA-30S Log Periodic Antenna is a linearly polarized broadband antenna designed to operate from 300 to 1000 MHz. The antenna is capable of operating as either a transmitting or receiving antenna. The linearly polarized design permits separate measurement of horizontal and vertical electric field components over its operating frequency range.

The antenna is constructed of aluminum and phenolic with a Type N (female) connector. The antenna attaches to the Electro-Metrics Model TRI-3022 Tripod using a derlin support rod (supplied) equipped with an aluminum base (1/4-20 threaded female connector). The LPA-30S can be orientated in either a vertical or horizontal position with respect to a horizontal plane. The antenna is portable and suitable for use in applications where space is limited; e.g. shielded rooms.

The antenna is calibrated at 1 and 3 meters with the calibration data included in the manual as gain and antenna factors vs frequency. The LPA-30S is capable of handling up to a maximum power level of 1 kW.

NOTE: When performing measurements using the LPA-30S always include the level of attenuation within the measurement system plus coaxial cable losses, in addition to the actual antenna factors, for determining the signal level being measured.

2.0 Specifications

2.1 Electrical

Frequency Range:	300 to 1000 MHz.
Impedance:	50Ω nominal.
Average VSWR:	<2:1.
Maximum Continuous Power:	1000 W
Connector:	Type "N" Female.

2.2 Mechanical

Length:	572 mm (22.5").
Width:	483 mm (19").
Depth:	127 mm (5").
Weight:	1.4 kg (3 lbs).

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GAIN AND ANTENNA FACTORS
MODEL LPA-30S
LOG PERIODIC ANTENNA
1 METER CALIBRATION
PAGE 4
3 METER CALIBRATION
PAGE 5
10 METER CALIBRATION
PAGE 6

ELECTRO-METRICS
GAIN AND ANTENNA FACTORS
MODEL LPA-30S
LOG PERIODIC ANTENNA
1 METER CALIBRATION
PAGE 4A

ELECTRO-METRICS
GAIN AND ANTENNA FACTORS
MODEL LPA-30S
LOG PERIODIC ANTENNA
3 METER CALIBRATION
PAGE 5A

ELECTRO-METRICS
GAIN AND ANTENNA FACTORS
MODEL LPA-30S
LOG PERIODIC ANTENNA
10 METER CALIBRATION
PAGE 6A