

Application

The active loop antenna LAX-10 can be used for the frequency selective measurement of magnetic fields in the long wave, mid wave and short wave frequency ranges. It can be used for testing according to CISPR, MIL, FCC, EN, ISO, ANSI, ETSI and many other standards.



Description

Active, shielded loop antenna with nearly constant antenna factor over the entire frequency range, battery driven to minimize disturbance influence from power line. Combined with a CISPR-16 EMI-receiver a convenient field strength measuring system with low noise and pulse measuring capabilities is composed. The LAX-10 can also be used with a spectrum analyzer. The shielded aluminum housing is equipped with rubber feet for desktop operation or can be mounted to a tripod using the female camera thread (3/8") at the bottom. A protection circuit against deep discharge provides a long battery lifecycle. The battery must be recharged after an automatic switch off.

A full battery charging period using the recommended charger takes around 5 hours. The PWR-switch must be set to OFF during the recharging period, otherwise no charging takes place. The charging connector is disabled while the PWR switch is set to ON (normal measuring operation), this avoids disturbances generated by the charger having an unwanted influence on the measurement.

Technical specifications

Nominal frequency range	9 kHz – 30 MHz
Connector, female	50 Ω, BNC
Antenna factor for fict. E-field strength	20 dB / m
Antenna factor for H-field strength	-31.5 dB / Ω
Loop diameter	0.5 m
Fieldstrength measuring range QP-Detector / 9 kHz IF-Bandwidth	30 – 130 dBμV/m
Fieldstrength measuring range AV-Detector / 200 Hz IF-Bandwidth	8 – 130 dBμV/m
Operation time with full battery capacity	typ 12h
Battery capacity	12 V NiMH 1.9 AH
Recommended charger	ACS 110
Mounting thread	1/4", 3/8"
Dimensions (W x L x D) in mm	520 x 585 x 120
Weight	1.9 kg

