

HF Loop Antenna 9kHz - 30MHz

HLA 6120

- Low flat antenna factor
- Useable with most test receivers
- Pulse overload warnings

The HLA 6120 is ideal for the 3m magnetic field measurements as required by VDE 0871 and FCC 18.

The built-in preamplifier matches the extremely low impedance of the loop to the measuring receiver. The HLA 6120 has a virtually constant factor over the whole of its frequency range, making it ideal for swept measurement systems.

Overload Warnings for Confidence of Measurement

One of the main reasons active HF antennas have not been widely accepted is the lack of overload warnings. With the HLA 6120, overload indications, both audible and visual, are given when signals are present at a level likely to cause non-linearity in the preamplifier and thus impair the integrity of the measurement.

This important feature detects the presence of high level signals, either pulsed or continuous, and gives a warning. Even single pulses (clicks) can be detected. For unattended measurements, a hold facility can be used. When the antenna is used remotely, TTL level logic signals provide a warning indication.

Power Sources

The antenna is powered by an external power supply / battery pack, allowing operation both near to a mains power supply and in remote applications.

CBP 9720 Battery pack supplied as standard



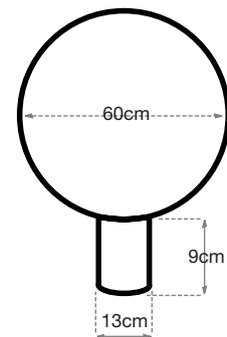
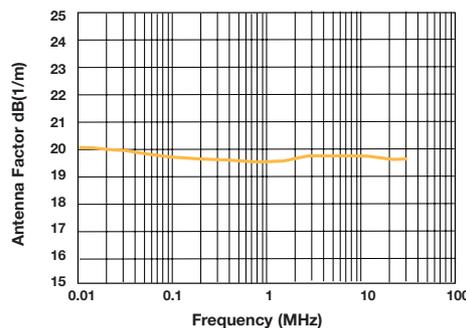
HLA 6120 mounted on optional tripod

Options

UKAS Calibration

Schaffner EMC Systems is UKAS accredited for antenna calibration and can offer a UKAS calibration as an additional costed option.

Typical Antenna Factor



Technical Specifications		HLA 6120	
Frequency range	9kHz - 30MHz	Operating temperature range	0 - 50°C
Antenna factor	20dB±1dB	Size L x W cm	62 x 70
Maximum measurable field	>137dBµV/m (7V/m)	Weight	2kg
Overload threshold	140dBµV/m (10V/m)	Loop diameter	60cm
Output impedance	50Ω Nominal	Power supply requirements	90-265V ac 45-63Hz
Warnings (local & remote)	Low power, RF cable fault, signal overload	CBP9720 Battery pack supplied as standard	