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Radio Link for Microphones and Accelerometers from 1 to 24 channels.

Two or four cables can be tidy but when numbers reach eight or more they invariably become a tangled mess. A radio link between the transducers and the recording system can solve this problem. A radio link will replace a long cable run and eliminate the risk of injury caused by tripping.

The system is optionally supplied configured as a fully integrated microphone and radio transmitter that can be placed almost anywhere and left to transmit whatever comes within range. Clearly the performance will be slightly compromised by the closeness of the microphone to its enclosure. However as the enclosure is only 65 x 65 x 25mm in size and weighs 110g it is somewhat less intrusive than a hand and



Radio transmitter and integral microphone

far less disturbing than the human body that is normally holding the sound level meter!

The integrated microphone can be replaced using a standard microphone and cable; a particularly interesting option when recording a mobile subject e.g. a tractor driver. The transmitter can be 100 + metres from the receiver using the standard antenna. If the high gain receiving antenna is used then the range becomes 600+ metres. Where small size and lightness are not required then the system is offered in a range of IP65 aluminium enclosures.

Brief Specifications of the radio link.

Frequency coverage: +/- 3dB 50—13kHz (30– 8kHz typically +/- 1 dB)

Transmission technique: Phase modulation

Dynamic range: 100dB

Radio Transmission license needed: None in the UK.

Number of none interfering channels available: 15

Applications:

- Environmental and Concert noise level monitoring — Widely distributed microphones without miles of cable.
- Building noise transmission regulatory testing — Sample SPL on both sides of a wall without running cables through doors or windows
- Vehicle Pass-By Noise Testing—complete the test using just a driver; track side microphones linked by radio to the acquisition system in the vehicle.
- Sound Power measurements—large machines such as diggers where a 30metre hemisphere needs to be measured over.
- Tyre Noise—measure noise inside the tyre and correlate it with radiated noise.
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For additional information please contact:

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