SeNDT Noise Monitoring Application Data Sheet

This application of Trinity College Dublin’s SeNDT technology provides continuous noise monitoring of 1 to 4 separate channels each sampled at a rate of 44kHz with storage of L10, L95 and Leq statistics at five-minute intervals. Wireless (WIFI) data retrieval means not having to open any boxes.

This unit is intended for urban and motorway noise monitoring and is currently being piloted in Ireland.

Application-specific features

See the SeNDT Technology Data Sheet for details of the underlying SeNDT technology and hardware.

ADC
- 2 x Analog Devices AD7654 16bit Analogue to Digital Converters
- 4 channels sampled simultaneously at up to 500kHz per channel
- Current configuration samples at up to 48kHz with real-time Digital A-Weighting
- 4 channels of 2 wire Electret microphones with 5V excitation on signal line
- Gain fixed at 11 (replace resistors to change)
- Panasonic WM-61 Electret microphones, Sensitivity, -35dB±4dB (0dB=1V/Pa, 1kHz)

Enclosure
- IP-66 compliant enclosure

Power supply
- 6-13V DC
- 10.8V Li+ Smart Battery option

Contact

SeNDT is an Enterprise-Ireland funded project under their Commercialisation Fund. We are happy to discuss further research opportunities or licensing of the technology.

For further information email sendt@cs.tcd.ie or visit http://down.dsg.cs.tcd.ie/sendt/

Note that SeNDT is a pilot project; therefore the technology described here is not a product for sale.