

THE EDGE[®]

CABLE-FREE NOISE DOSIMETER



Using the latest in signal processing technology and new lithium polymer battery power, the *EDGE* represents the most advanced **CABLE-FREE** noise dosimeter today.



Since 1969

When it comes to innovation,

we really pushed the envelope. As the market leader in noise dosimeters, we were committed to designing the most innovative cable-free dosimeter on the market today. The Edge is available with 3 models including the eg5 model for Intrinsically safe environments. With The Edge there's no bulky, heavy dosimeter weighing you down. No more worrying about the cable interfering with your work. Weighing in at a mere 3 ounces and featuring a thin, contoured shoulder mount, you'll barely notice The Edge at work. But with so many features, easy downloading, simple recharging and long battery life you'll quickly understand this is one powerful new instrument.



Even with its sleek size, you can display SPL, Dose, Lavg or Leq, TWA, Max Level, Min Level, Peak Level, Exposure and Run Time while in run mode. No other cable-free dosimeter on the market has this capability! In addition, the display will show a visual indicator when exposure limits have been exceeded.

THE EDGE is available with 1- or 5-bay "EdgeDock" docking stations. The dosimeters are placed on the EdgeDock and a red flashing light indicates that it is charging. A green solid light will appear when charging is complete. The EdgeDock is also used to download data to QuestSuite Professional II. Data is downloaded from each dosimeter through the EdgeDock and sent to a PC via the dock's USB Port. Multiple EdgeDocks may be interfaced via a USB Hub to the PC.

Battery life boasts over 60 hours of run time on the eg3 and eg4 models and with 40 hours nominal without LED activated on the intrinsically safe eg5 model. The rechargeable lithium polymer battery is the latest technology giving it superior run time. In addition, the battery will only need to be replaced every 3 years, or possibly longer, saving you money over the life of the instrument compared to other dosimeters on the market.

Key Benefits

- 1) Convenient and efficient cable-free design eliminates the microphone cable and the potential to get in the way.
- 2) Thin, contoured shoulder mount hugs your shoulder. Small and compact frame offers superior comfort.
- 3) Rechargeable lithium polymer battery enables The Edge to have the longest battery life in the industry for cable-free dosimeters.
- 4) Offered with 1 or 5 bay "EdgeDock" docking stations for quick and easy recharge. Download data to PC through docking station.
- 5) Downloads to QuestSuite Professional II for analysis and management of measurement of data.
- 6) Three Models Available: The eg3 basic model with summary data report; and the eg4 and the eg5 advanced models with dual dosimeters and data logging/time history. The eg5 meets the American and International standards for intrinsic safety.



SPECIFICATIONS FOR THE EDGE

FUNCTIONAL REQUIREMENTS INCLUDE

- Microphone: 1/4 inch prepolarized condenser (electret) field replaceable threaded microphone
- Measuring range: 70dB -140dB
- Windscreen: Rugged foam permanently attached to a threaded mount for maximum protection

DOSIMETER (eg4 HAS SECOND INDEPENDENT DOSIMETER)

- Independent Thresholds selectable from 70dB to 90dB or none
- Independent Exchange Rates 3dB, 4dB or 5dB for each dosimeter
- Independent Criterion Levels from 70dB to 90dB in 1dB increments

MEASUREMENT SETTINGS

- RMS Range: 70 to 140dB
- RMS Weighting: A or C
- RMS Time response: Fast or Slow

PEAK DETECTOR

- Peak Range: 110 to 143dB
- Peak Weighting: Selectable C or Z for models eg3 and eg4; Selectable A, C, or Z for the eg5 model (Peak is independent of the RMS dosimeter settings)

DISPLAYED DATA / VALUES

- | | | |
|---------------|--------------|--------------------|
| - SPL | - Max Level | - Exposure |
| - Lavg or Leq | - Min Level | - Run Time |
| - TWA | - Peak Level | - L _{C-A} |

DISPLAYED STATUS INDICATORS

- | | |
|-----------------------|-------------------------------------|
| - Battery | - Dose Exposure Indicator |
| - Memory | (Multicolored LED, user selectable) |
| - Run/Pause | |
| - Overload Indication | |

ADDITIONAL FEATURES

- Calibration times displayed
- Lock out security function (multilevel)
- Device setup: Easy quick setup via QSP-II software in English, German, French, Spanish, Italian, and Portuguese
- Data Logging – Lavg or Leq (1&2), Max, Peak and Overload Indication at one minute intervals (eg4 and eg5 models)

The Edge is easy to use with four buttons on the instrument to run and navigate.

The Edge is offered in three different models to fit your needs and budget. The eg3 basic model features summary data reports, while the eg4 advanced model has dual dosimeters and datalogging/time history. The eg5 stands apart as an intrinsically safe dosimeter and has simultaneous C-weighted and A-weighted measurement capability.

SPECIFICATIONS FOR THE EDGE

▶ POWER / ELECTRICAL CHARACTERISTICS

- Battery: Lithium Polymer (Flat cell)
- Battery Life: 120 hours eg3 and eg4 models 60+ hours. eg5 intrinsically safe 40 hours nominal without LED activated
- Battery Charge: Quick charge in EdgeDock in 2 to 4 hours. Recommended daily download data with simultaneous battery charging for maximum efficiency
- Memory capacity: 180 hours
- Communications: Short haul serial Infrared (SIR) via the EdgeDock

▶ STANDARDS

- ANSI S1.25 Personal Noise Dosimeters
- IEC61252 Personal Sound Exposure Meters
- *RoHS compliant
- Intrinsic safety:
 - IEC 60079-0:2004 and IEC 60079-11:2006
 - IECEx certification number: SIM 08.0012
 - MSHA, ATEX, UL, CUL (Pending)

▶ PHYSICAL CHARACTERISTICS

- Weight is 3 ounces (85 grams)
- Size is 3.5" long x 2.1" wide x .75" thick (88mm x 53mm x 19mm)
- Case material: Engineered Polymer
- IP rated 65
- Lockable windscreen
- Keypad: 4 keys - Up Arrow, Down Arrow, Run/Stop, On/Off, Enter
- Display: 128x64 LCD
- Alligator Clothing Clip / Suspender Clasp
- Variety of other mounting methods for hard hats, etc.

▶ DOCKING STATION: SINGLE AND FIVE BAY VERSIONS

- Communications via the EdgeDock and USB to PC
- Typical recharge in 2 to 4 hours
- Complete instrument fits neatly into EdgeDock without removing mounting devices

▶ ENVIRONMENTAL CHARACTERISTICS

- Operating Temperature Range: -10° C to 50° C (14° F to 122° F)
- Storage Temperature Range: -25° C to 60° C (-13° F to 140° F)
- Humidity Range: 0 to 95% Non-Condensing

*All Specifications Subject to Change



The System Solution Software



QuestSuite Professional II Software provides the ultimate "System Solution" for recording, reporting, charting and analyzing exposures to a variety of occupational and environmental hazards. With QuestSuite, there are no more headaches of learning different programs or switching between multiple software applications. Just one simple, yet robust system solution for all of our rugged Quest instruments.



Worldwide Headquarters - 1060 Corporate Center Drive - Oconomowoc, Wisconsin 53066 USA
262.567.9157 - 800.245.0779 - www.QuestTechnologies.com



ISO 9001:2000 Registered Company
ISO 17025 Accredited Calibration Lab
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