Quest™ Edge 8 Personal Noise Dosimeter

Models EG8, EG8-BT, EG8M-BT

The perfect blend of flexibility and reliability even in the harshest of environments

TSI® Quest™ Edge 8 Personal Noise Dosimeter is a powerful and intuitive instrument designed for identifying hearing loss threats and informing the design of hearing protection programs and engineering controls. It is designed to help keep users safe and productive during monitoring with customization to help drive productivity.

Built Durable – specifically designed for day-after-day use and tough environments

- **Sturdy ½" MEMS microphone** (Type 2/Class 2) designed to hold up to rigorous use
- **Hi Visibility Color display** for easy reading in different light conditions
- **Robust windscreen** designed for daily use with easy removal for calibration
- **Shock resistant rubber overlay** for better protection and durability
- **Compact** unit mounts easily and securely to the shoulder

Simply Powerful in Capabilities – easy-to-use and comes standard with the full-feature set, so no upgrade charges

- **BLE5 Bluetooth® technology** syncs to the Edge dB mobile app for data viewing and management at a safe distance. Non Bluetooth models are also available
- **Voice Notes** capture a verbal note about location, description, or noise event, which will display in the time-stamped data set for reference in later analysis
- **Audio Recording** function will automatically record audio of a noise event above a configurable dB level and be reviewable in your time-stamped data set, allowing for improved diagnostics and time savings in analysis
- **1/1 Octave Band** data capture and analysis enables Engineering Control validation and identification of potential changes needed
- **Pause Study** functionality allows for elimination of noise data during breaks, location/shift changes, or off-site travel to give a more accurate representation of working environments
- **Ceiling threshold monitoring** counts the number of occurrences above a ceiling dB level that you determine, giving you better information when a worker may be at increased risk and need hearing protection device changes
- **Four independent, configurable virtual dosimeters** that can monitor against up to 4 different standards simultaneously
- **LED dose indicator** flashes to easily identify who has reached their daily maximum noise dose exposure
- **User-Configurable settings** allow you control of feature set-up and analysis according to your specific needs

Intuitive Detection Management Software (DMS) – offers a variety of flexible functionality

- **Configure** instrumentation and save pre-configured setups
- **Auto Run** feature is used to confidently conduct your studies without having to be physically present
- **Lock feature** to make every study count by avoiding user involuntary termination of current studies
- **Create** charts, tables, and reports to intuitively interpret your measurements
- **Data retention and record keeping** features keep all files organized and personalized for your team
- **Single license** needed for your entire organization

Intrinsically Safe Certification - to enable monitoring to be safely performed in potentially hazardous environments where devices must be certified for use.

airmet
Work with Confidence

Distributed by:
Air-Met Scientific Pty Ltd

Air-Met Sales/Service
P: 1800 000 744
F: 1800 000 774
E: sales@airmet.com.au

Air-Met Rental
P: 1300 137 067
E: hire@airmet.com.au
W: www.airmet.com.au

Specifications

Quest™ Edge 8 Personal Noise Dosimeter

Models EG8, EG8-BT, EG8M-BT

Functional Requirements Include

Microphone	1/2 inch MEMS field replaceable microphone
Measuring Range	70dB to 140dB
Windscreen	Rugged foam permanently attached to a twist-on mount for maximum protection

Dosimeter

Quest™ Edge 8	Four independent dosimeters
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	70dB to 140dB
Peak Range	110dB to 143dB
RMS Time Response	Fast or Slow
RMS Weighting	A, C
Peak Weighting	C, Z (Peak is independent of the RMS dosimeter settings)
Ceiling Count	Configurable based on dB level and time period for which ceiling is exceeded

1/1 Octave Band analysis

Displayed Data / Values

- L_{AVG} or L_{EQ}
- Exposure
- SPL
- Min Level
- Dose
- TWA
- Upper Limit (UL)
- Identity Field (assigns a custom name)
- 1/1 Octave Band Chart
- Current Date
- Max Level
- SEL (LEP)
- Threshold (TH)
- Peak Level
- Run Time
- Projected Dose
- Ceiling exceeded count

Displayed Status Indicators

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

Docking Station: Single and Five Bay Versions

Communications	Via the EdgeConnect dock and USB cord to PC
Typical Recharge	2 to 4 hours
Complete Instrument	Fits neatly into EdgeConnect dock without removing mounting device

Power / Electrical Characteristics

Battery	Lithium Polymer (Flat cell)
Battery Life	30 hours nominal without display activated

Power / Electrical Characteristics *continued*

Battery Charge	Approximately 7 hours when completely depleted. Daily data download with simultaneous battery charging recommended for maximum efficiency
Memory Capacity	Up to 100 days with log per minute
Communications	Via USB through the EdgeConnect docking station, and via BLE 5 to Edge dB App (on BT models)

Standards

ANSI S1.25-1991 (R2017) – Specification for Personal Noise Dosimeter

IEC 61252:1993+AMD1:2000+AMD2:2017 – Electroacoustics - Personal Sound Exposure meters

Explosive atmospheres:

IEC 60079-11:2011, IEC 60079-11:2012, IEC 60079-26:2014, IEC 60079-26:2015, IEC 60079-0:2018, IEC 60079-26:2021

- IECEx certification number: UL24.0016
- ATEX Directive 2014/34/EU for use in potentially explosive atmosphere certificate number: UL 24ATEX3178

Ex ia IIC T4 Ga
Ex ia I Ma
-10°C to +50°C

- UL Listing Certificate number for US and Canada: E87792. Class I, Div 1, Groups A, B, C, D T4

Physical Characteristics

Weight	4.16 ounces
Size	4.86 inch x 2.33 inch x 1.26 inch (123.4 mm x 59.2 mm x 32 mm)
Case Material	Nylon with closed cell foam insert
IP Rated	65
Keypad	6 keys – Up Arrow, Down Arrow, On/Off, Enter, 2 soft keys
Display	128x64 color OLED

RoHS Compliant, Lockable Windscreen, Alligator Clothing Clip/ Suspender Clasp

Environmental Characteristics

Operating Temperature Range	14 °F to 122 °F (-10 °C to 50 °C)
Storage Temperature Range	-13 °F to 140 °F (-25 °C to 60 °C)
Humidity Range	5% to 95% Non-Condensing

Additional Features

Device Setup	Easy setup via DMS in languages: English, Spanish, Portuguese, German, French, Italian, and Korean
Data Logging	L_{AVG} or L_{EQ}, Max, Peak and Overload Indication at one minute intervals

Calibration times displayed

Lock out security function (multilevel)

Specifications are subject to change without notice.

Knowledge Beyond Measure.

TSI Incorporated - Visit our website **www.tsi.com** for more information.

USA	Tel: +1 800 874 2811	**India**	Tel: +91 80 67877200
UK	Tel: +44 149 4 459200	**China**	Tel: +86 10 8219 7688
France	Tel: +33 1 41 19 21 99	**Singapore**	Tel: +65 6595 6388
Germany	Tel: +49 241 523030		

P/N 5002866 Rev C

Printed in U.S.A.

8804252885