THE EDGE PERSONAL NOISE DOSIMETER

The TSI Quest™ Edge Personal Noise Dosimeter is a comfortable, compact dosimeter that easily mounts to your shoulder. The Edge 5 model offers three independent dosimeters that can simultaneously measure against separate industry standards, all in one compact unit.

Features and Benefits

+ Compact, 3-ounce (85 grams) unit mounts easily to the shoulder
+ Large display with easy-to-use interface provides crucial information at a glance
+ Choose from three independent dosimeters that can simultaneously measure against separate industry standards, all in one compact unit
+ MSHA, SIRA (ATEX), CSA (US/Canada) and Simtars (IECEx) Intrinsic Safety Approvals
DESIGNED FOR EXCEPTIONAL EASE OF USE

OTHER FEATURES

Efficient Setup
+ Infrared communication port to EdgeDock provides quick USB connection to the Detection Management Software
+ Helps safety professional easily setup one or more Edge dosimeters

Contoured shoulder mount
+ Ergonomically designed and comfortable; weighs just 3 oz
+ Lightweight and unobtrusive design assures comfort

Intrinsic safety approvals
+ The Edge eg5 carries intrinsic safety approvals from MSHA, SIRA (ATEX), CSA (US and Canada) and Simtars (IECEx)
+ Monitoring can be safely performed in potentially hazardous environments where devices must be certified

LED Dose Indicator
+ LED indicator can be programmed to flash when dose level has been exceeded
+ Helps safety manager and employees easily identify who has reached their daily maximum noise dose exposure

Three Independent Dosimeters
+ Edge eg5 enables simultaneous measurement against as many as three industry standards (ex: OSHA PEL, OSHA HC, ACGIH)
+ Saves time and cost by reducing the need for multiple sampling surveys

Display with Lockout Ability
+ Easy-to-read design enables workers to monitor their own noise exposure. If desired, unit can be set to inhibit display, for easier testing and verification
+ Provides safety professionals the options needed to achieve compliance with hearing protection standards
**Detection Management Software**

Designed for dosimetry, sound level measurements, heat stress assessments and environmental monitoring, this advanced software helps safety and occupational professionals:

- Configure instrumentation and save pre-configured setups
- Retrieve, download, share, and save instrument data
- Create charts, tables, and reports to intuitively interpret your measurements
- Export and share recorded results

---

**CHOOSE THE MODEL THAT BEST MEETS YOUR NEEDS**

<table>
<thead>
<tr>
<th></th>
<th>Edge 4 Noise Dosimeter</th>
<th>Edge 5 Noise Dosimeter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product No.</strong></td>
<td>eg4-D</td>
<td>eg5-D</td>
</tr>
<tr>
<td><strong>Data Logging</strong></td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td><strong>Battery Life</strong></td>
<td>60+ hours</td>
<td>40 hours</td>
</tr>
<tr>
<td><strong>Lock Out Security Function</strong></td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td><strong>LED Dose Indicator</strong></td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td><strong>No. of Independent Dosimeters</strong></td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td><strong>IP Rating</strong></td>
<td>IP-65</td>
<td>IP-65</td>
</tr>
<tr>
<td><strong>MSHA Approval</strong></td>
<td></td>
<td>+</td>
</tr>
<tr>
<td><strong>Intrinsic Safety Approval</strong></td>
<td></td>
<td>+</td>
</tr>
</tbody>
</table>

The software integrates with TSI Quest Detection Solutions data logging instruments and will help you improve both operating efficiency.
## 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 two independent dosimeters. **eg5** has three independent dosimeters. Third dosimeter is enabled through Detection Management Software.
- **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
- **RMS Weighting**
  - A or C
- **RMS Time Response**
  - Fast or Slow
- **Frequency Weighting**
  - A, C, Z

#### Peak Detector

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

#### Displayed Data / Values

<table>
<thead>
<tr>
<th>Data Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L100 or LEP</td>
<td>+ Current Date</td>
</tr>
<tr>
<td>Exposure</td>
<td>+ LEQ (eg5)</td>
</tr>
<tr>
<td>SPL</td>
<td>+ Max Level</td>
</tr>
<tr>
<td>Min Level</td>
<td>+ SEL (LEP)</td>
</tr>
<tr>
<td>Dose</td>
<td>+ Peak Level</td>
</tr>
<tr>
<td>TWA</td>
<td>+ Threshold (TR)</td>
</tr>
<tr>
<td>Upper Limit (UL)</td>
<td>+ Run Time</td>
</tr>
<tr>
<td>Identity Field</td>
<td>+ Projected Dose (eg5)</td>
</tr>
</tbody>
</table>

#### Displayed Status Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery</td>
<td>+ Memory</td>
</tr>
<tr>
<td>Run/Pause</td>
<td>+ Overload Indicator</td>
</tr>
<tr>
<td>Dose Exposure Indicator</td>
<td>(Multicolored LED, user selectable)</td>
</tr>
</tbody>
</table>

### Docking Station: Single and Five Bay Versions

- **Communications**
  - Via the EdgeDock and USB to PC
- **Typical recharge**
  - 2 to 4 hours
- **Complete instrument**
  - Fits neatly into EdgeDock without removing mounting device

### Power / Electrical Characteristics

- **Battery**
  - Lithium Polymer (Flat cell)
- **Battery Life**
  - eg4 model 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

### Standards

- **ANSI S1.25 Personal Noise Dosimeters**
- **IECEC252 Personal Sound Exposure Meters**
- **Intrinsic Safety (eg5)**
  - + IECEx certification number: SIM 08.0012
    - + CSA International (US and Canada) certificate number: 2283414
    - + MSHA Approval number: 18-A10008-0

### Physical Characteristics

- **Weight**
  - 3 ounces (85 grams)
- **Case Material**
  - Engineered Polymer
- **IP Rated**
  - 65
- **Display**
  - 128x64 LCD
- **RoHS Compliant**
- **Keypad**
  - 4 keys – Up Arrow, Down Arrow, Run/Stop, On/Off, Enter
- **Case**
  - 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**
    - 0 to 95% Non-Condensing

### Additional Features

- **Device Setup**
  - Easy, quick setup via DMS software in Chinese, Czech, English, French, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish
- **Data Logging**
  - L100 or LEP. Max, Peak and Overload Indication at one minute intervals
- **Calibration times displayed**
- **Lock out security function (multilevel)"

---

Specifications are subject to change without notice.

**Quest** is a trademark, and **TSI** and the **TSI logo** are registered trademarks of **TSI Incorporated**.

---

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

<table>
<thead>
<tr>
<th>Country</th>
<th>Tel</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>+1 800 874 2811</td>
<td>+1 810 67877200</td>
</tr>
<tr>
<td>UK</td>
<td>+44 149 4 453200</td>
<td>+44 149 4 453200</td>
</tr>
<tr>
<td>France</td>
<td>+33 1 41 19 21 99</td>
<td>+33 1 41 19 21 99</td>
</tr>
<tr>
<td>Germany</td>
<td>+49 241 523030</td>
<td>+49 241 523030</td>
</tr>
</tbody>
</table>

©2018 TSI Incorporated