



Personal Noise Measurement

That Doesn't Weigh You Down



Comfortable.

- Compact, 3-ounce (85 grams) unit mounts easily to the shoulder

Intuitive.

- Large display with easy-to-use interface provides crucial information at a glance
- Edge 5 model offers three independent dosimeters that can simultaneously measure against separate industry standards, all in one compact unit

Certified.

- MSHA, SIRA (ATEX), CSA (US/Canada) and Simtars (IECEX) Intrinsic Safety Approvals

To find out more about 3M Detection Solutions products, see www.3M.com/Detection.

The power to protect your world.™



Designed for Exceptional Ease of Use

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



3.5" long x 2.1" wide x .75" thick
(88mm x 53mm x 19mm)

Efficient Setup

- Infrared communication port to EdgeDock provides quick USB connection to 3M™ 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

Choose the Model That Best Meets Your Needs

	Edge 4 Noise Dosimeter	Edge 5 Noise Dosimeter
Product No.	eg4-D	eg5-D
3M ID	70071579273	70071579307
Data Logging	•	•
Battery Life	60+ hours	40 hours
Lock Out Security Function	•	•
LED Dose Indicator	•	•
No. of Independent Dosimeters	2	3 <small>(third dosimeter enabled through DMS software)</small>
IP Rating	IP-65	IP-65
MSHA Approval		•
Intrinsic Safety Approval		•

3M™ Detection Management Software DMS

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



Configure.

- Configure instrumentation and save pre configured setups

Analyze.

- Retrieve, download, share, and save instrument data
- Create charts, tables, and panels to intuitively interpret your measurements

Report.

- Generate insightful charts and reports
- Export and share recorded results

The software integrates with 3M™ Detection Solutions data logging instruments and will help you improve both operating efficiency and reporting in acoustics, heat stress, and environmental monitoring.



3M Detection Solutions: Brilliantly Intuitive

Product No.	Description	3M ID
DMS	Detection Management Software	70071608213

Specifications

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

• L_{AVG} or L_{EQ}	• Current Date
• Exposure	• LC-A (eg5)
• SPL	• Max Level
• Min Level	• SEL (L_{EP})
• Dose	• Threshold (TR)
• TWA	• Peak Level
• Projected Dose (eg5)	
• Upper Limit (UL)	• Run Time
• Identity Field (assigns a custom name to The Edge)	

Displayed Status Indicators

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

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 devices

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
Communications:	Short haul serial Infrared (SIR) via the EdgeDock

Standards

ANSI S1.25 Personal Noise Dosimeters

IEC61252 Personal Sound Exposure Meters

Intrinsic Safety: (eg5)	<ul style="list-style-type: none"> • EN 60079-0:2006, EN 60079-11:2007, EN 60079-26:2007 • IECEx certification number: SIM 08.0012 • ATEX Directive 94/9/EC for use in Potentially Explosive Atmosphere xcertification number: Sira 09ATEX2269 • CSA International (US and Canada) certificate number: 2283414 • MSHA Approval number: 18-A100008-0
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Physical Characteristics

Weight:	3 ounces (85 grams)
Size:	3.5" long x 2.1" wide x .75" thick (88mm x 53mm x 19mm), eg5 is .82" (21mm) thick
Case Material:	Engineered Polymer
IP Rated	65
Keypad:	4 keys – Up Arrow, Down Arrow, Run/Stop, On/Off, Enter
Display:	128x64 LCD
RoHS Compliant	
Lockable Windscreen	
Alligator Clothing Clip / Suspender Clasp	

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

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:	L_{AVG} or L_{EQ} , Max, Peak and Overload Indication at one minute intervals

Calibration times displayed

Lock out security function (multilevel)

All Specifications Subject to Change.



Personal Safety Division

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ISO 17025 Accredited Calibration Lab
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