Detection Solutions

Detection is the first step in identifying where hearing protection may be needed. 3M delivers intuitive solutions for effective noise monitoring programs. Durable, accurate, and easy-to-use instrumentation makes it simple to report and share noise exposure data. 3M Detection products deliver innovatively simple solutions to complex monitoring challenges.

For more information and to see our full line of detection solutions, please contact your 3M sales representative or visit www.3M.com/detection.

Noise Indicator™ NI-100

The 3M™ Noise Indicator NI-100 alerts users to potentially dangerous noise levels, helping to identify areas where hearing protection may be required. Users simply clip the Noise indicator to a shirt or jacket; its LED light provides a clear visual indication when noise levels exceed a potentially hazardous threshold.

The NI-100's small size and lightweight design make it ideal for workers in a variety of industries. In a variable noise environment the "Go/No Go" simplicity of the 3M™ Noise Indicator™ offers an indispensable tool for training and promoting voluntary hearing protection compliance in all areas of the work place.

Visual "Go/No Go"
- Green LED ("Go") flashes when noise level is below 85dB(A)
- Red LED ("No Go") flashes when noise level exceeds 85dB(A)
- Easy-to-understand visual indication when hearing protection may/may not be needed

One-button operation
- Simply clip to shirt and power-on
- Easy for workers to use and understand

Easily attached
- Clips to a wearer's shirt or can be worn as a lanyard

Rechargeable battery
- Provides up to 200 hours of use between charges
- 10-hour auto-power off helps prolong battery life for extra cost savings

Small size
- Compact, lightweight design for increased hearing protection compliance

3M™ Sound Detector SD-200 with Optime™ Alert System Linkage

The 3M™ Sound Detector SD-200 is a compact, lightweight sound level meter, designed to accurately measure workplace noise levels. Green, yellow and red LEDs flash the colour that corresponds to the 3M™ Optime™ Alert System, making it easy to select the appropriate level of hearing protection.

Industry compliant
- Meets applicable European ANSI and IEC Class 2 standards
- Consistent performance with accurate, actionable readings

Average sound pressure level (LEQ/LAVG
- Integrating feature computes the average sound pressure level
- Provides stable readings where noise levels typically vary, for easier interpretation

User-friendly
- Simple four-button navigation to perform all functions
- Comes ready to take measurements; no configuration necessary

LED alerts match Optime™ Alert System
- Tri color LED's flash brightly when preset noise levels are reached
- Helps user understand where hearing protection may need to be worn

Green LED flashes when noise measurements are between 80 and 85dB

Yellow LED flashes when noise measurements are between 85 and 105dB

Red LED flashes when noise measurements are above 105dB

Rechargeable
- Lithium polymer battery provides up to 50 hours of use between charges
- Reduces the cost and hassle of replaceable batteries

3M™ Sound Examiner™ Sound Level Master SE-400

The Sound Examiner SE-400 series of sound meters are engineeredto accurately measure noise levels in highly variable environments.The intuitive interface of this user-friendly sound level meter allows for out-of-box use with little to no training.

Compatible
See page 78 for details

Features and Benefits:

Removable preamp
- Preamp can be easily removed to enable interference-free low-level monitoring, especially for remote use

Aerodynamic shape
- Minimizes disturbance to sound fields being measured, assuring accurate readings

Onboard Data Logging
- Allows user to capture maximum, minimum and peak valu gh analysis.
- Can be used with 3M™ Detection Management Software DMS to manage compliance with hearing conservation programs

Display
- Display Languages: English, Spanish, German, French, Italian or Portuguese
- Display SPL, LMAX, LMIN, Peak, Lavg/Leq, Elapsed Time

Conformance to standards
- Meets IEC 61672-1 (2002) and ANSI S1.43-1997 (R2007) standards and is CE certified

Choice of microphones
- User can specify microphone type (Class/Type I or Class/Type II) based on application.
- Select Type II for general duty; Type I accuracy for legal metrology

SoundPatrol portable digital printing (optional)
- Enables hard-copy documentation of measurement results in the field
- Facilitates noise ordinance enforcement and on-the-spot citation issuance

Choose the Model That Best Meets Your Needs	Sound Examiner SE-401	Sound Examiner SE-402	Sound Examiner SE-402-R	Sound Examiner SE-401-IS	Sound Examiner SE-402-IS
Product No.	SE-401	SE-402	SE-402-R	SE-401-IS	SE-402-IS
Intrinsically safe				●	●
Data Logging	●	●	●	●	●
DMS Compatible	●	●	●	●	●
Class/Type 2 Accuracy		●	●		●
Class/Type 1 Accuracy	●			●	
External AC/DC Output	●	●	●		
Portable Printing Option	●	●	●		
Removable Preamp	●		●		

3M™ The Edge Personal Noise Dosimeter

The Edge family of personal noise dosimeters offer a cable-free, compact monitoring solution that mounts comfortably to the shoulder. Its large display with easy to use interface provides crucial information at a glance and its data logging capability allows for advanced reporting and analysis.

Compatible
See page 78 for details

Features and Benefits:

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 (e.g. EU, 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

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 85g
- 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

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

	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

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 instrumentation and save pre-configured setups **Analyse,** retrieve, download, share and save instrument data. Create charts, tables and panels to intuitively interpret your measurements. Perform advanced calculations. **Report**, generate insightful charts and reports, export and share the 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.

Features and Benefits:

Global platform
- Languages supported: Chinese, Czech, English, French, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish
- Single software package enables companies with multiple locations to easily align programs and share data across regions and divisions

Wide-range application support
- Noise dosimetry
- Octave band sound analysis/ survey
- Thermal comfort monitoring
- Integrating sound level meter
- Industrial and community sound surveys
- Indoor air quality (IAQ) assessment
- Area and personal heat stress monitoring

User-friendly interface
- Intuitive operation, helpful icons and simple graphing tools enable efficient usage
- "Click, Drag and Drop" report-building
- Data Finder provides quick access to stored information
- Easy to learn and use without the need for extensive training

All-in-one software solution
- Integrates with currently manufactured models of 3M Detection data logging instruments
- Centrally organize and access exposure data across acoustics, heat stress and environmental monitoring categories
- Generate powerful charts and reports including logged data, statistics, exceedance, and filter summary
- Saves time spent switching between software applications

Powerful tool for analysis
- Quickly create insightful charts including logged data, exceedance, filter summary and more
- Ready-to-use chart templates help generate impactful reports to support safety program compliance efforts

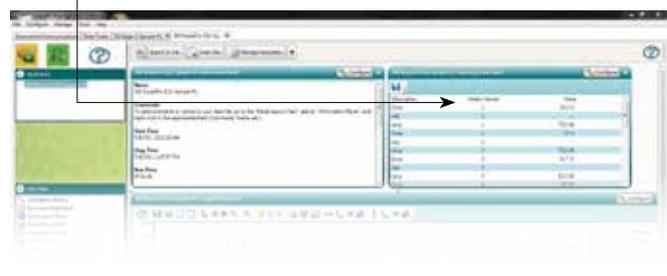| System Requirements |
| --- |
| Pentium 4, 3GHz or later |
| 2GB RAM |
| Windows XP, SP2 or later, Windows 7, 8, both 32 and 64 bit systems |
| 1280 × 1024 pixels x 32-bit color dislpay |
| 70 -135 MB of disk space, depending on previously installed components |
| Keyboard |
| Mouse or pointing device |

Product No.	Description	3M ID
DMS	Detection Management Software	70-0716-0821-3