Knowledge Beyond Measure.

TSI OmniWear Noise™
Personal Noise Dosimeter

Customizable, Scalable, and Affordable Monitoring.

The TSI OmniWear Noise™ Dosimeter is a body worn personal noise dosimeter, ideal for taking noise exposure measurements, that measures all key workplace noise parameters simultaneously.

The light and robust design guarantees low body burden for the wearer, used in conjunction with the initiative control and monitoring App, the TSI OmniWear Noise™ Dosimeter allows you to perfectly capture the important noise data you need.

Applications
- Complete shift exposure measurements
- Task based measurements
- Measurements in accordance with CFR 1910.95 (USA), ISO9612:2009

Features
- Small, lightweight (36g) & discreet device
- Rugged design (IP65 rating)
- Easy to use, one button operation
- TSI OmniWear Noise App to set-up, check and monitor data remotely
- Multifunctional LED status indicator
- Motion sensing to validate wear
- 1 second time history profiling
- Pause function
- Measures all key noise dose parameters simultaneously
- Intuitive App facilitates easy set-up, deployment, storage and review of results
- Quick & easy calibration
- Drop in and modular wireless charger
- Kit case options for 5, 10 and 20 devices

The Easy-to-Use App

The TSI OmniWear Noise™ Dosimeter App works on a mobile device to configure and set up your TSI OmniWear Noise™ Dosimeter units to deploy them across your working environment, however large or small. The TSI OmniWear Noise™ Dosimeter App works with iOS or Android devices and is available free in the Apple Store and Google Play Store.

App Store Google Play

Study & Control Multiple Devices

The App can control and monitor multiple devices without interruption to the device wearer. The App offers access to real-time data collection and allows post run reporting.

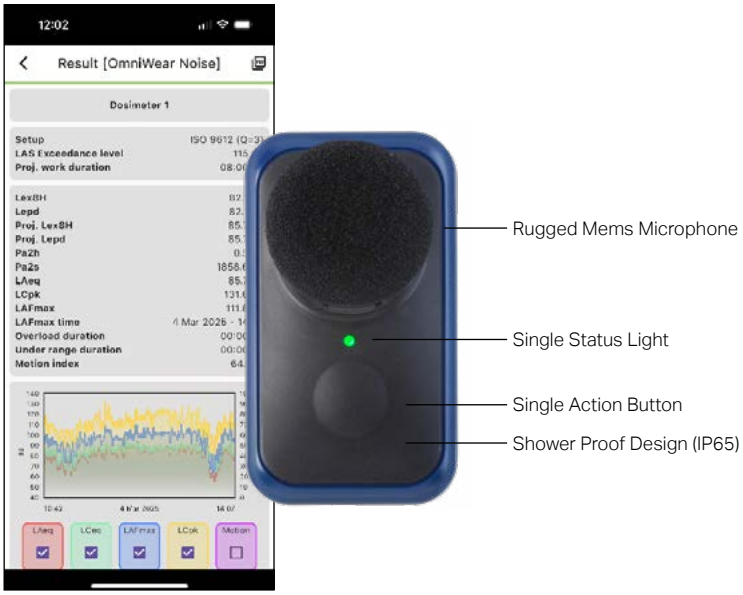
A report for each run can be downloaded from each device and viewed on the App, then shared in PDF format.

Each App can monitor up to 20 devices at one time and multiple Apps can monitor and control the same set of TSI OmniWear™ Noise Dosimeter devices remotely through Bluetooth® connectivity.

Comprehensive Measurements

The dosimeter collects all necessary sound level measurements including peaks, run averages, and 8-hour projected dose values.

Live alerts and graphical reports can be monitored in real time. The captured data can be collated and analyzed offline retrospectively.



Fast, Wireless Charging

The wireless drop in charger offers quick and reliable charging, each individual charger has a multi colour status light to show charge status at a glance and has a smart charge capability to protect against overcharging and to maximise battery life.

The module charger can be used stand-alone or can be linked together from 2 to 10 units powered from a single wall mounted power supply.

Chargers can be desk mounted or DIN Rail mounted for fixing onto walls or inside cabinets.

Battery & charging
- 16 hours battery life
- 4 hours charge (85%)
- 6 hours charge (100%)

Fast & Simple Calibration

The CEL-120 calibrator can be provided to perform field calibration. The TSI OmniWear Noise™ Dosimeter will auto sense the calibrator and provides the user with a one touch auto calibration.

Calibration data is stored and shows in the reports after the measurements. When a post-measurement calibration is performed, data is stored and any drift is automatically calculated.

Both the TSI OmniWear Noise™ Dosimeter and calibrator are supplied with calibration certificates.

Intuitive Reporting

The reporting function is designed to be very easy to use and perfect for a user with limited experience of noise dosimeters.

All run data is collected and organised in user friendly reports with key noise dose parameters displayed, as well as setup and calibration information. Time-history of the noise data is displayed for the result. Reports are formatted into PDF to be easily shared with stakeholders.

Specifications

TSI OmniWear Noise™ Personal Noise Dosimeter

Standards
ANSI S1.25:1991 R2024, BS EN61252: 1997+ A2:2017

Linear Operating Range
70-140.3 dB (A) RMS

Peak Measurement Range
90.0-143.3 dB (C or Z weighted)

Sound Exposure Range
0.0-6,100.0 Pa^2Hours

Frequency Weightings
A, C and Z

Time Weightings
Fast and Slow

Exchange Rate
Q=3 or Q=5dB exchange rates

Threshold and Criterion
80dB or 90dB

Operating Temperature Range
0˚C to +40˚C (for <+/-0.5dB error limit)
-10˚C to +50˚C (for <+/-0.8dB error limit)

Humidity Range
<+/-0.5dB over 30% - 90% (non-condensing)

Storage Temperature
-10˚C to +50˚C

Battery
Li-Polymer, 350mAh

Run Time
Typically,16 hours

Charge Time
6 hours to 100%
4 hours to 85%

Maximum Number of Runs
64

Weight
36g

Dimensions
56 x 32 x 40 mm

Ingress Protection (IP) rating
IP65 (with permeable air vent)

Setup Name	Threshold (T)	Criterion (C)	Exchange Rate (Q)
OSHA HC	80	90	5
OSHA PEL	90	90	5
ACGIH	80	85	3
MSHA	90	90	5
ISO AUS	N/A	85	3
ISO9612	N/A	85	3

Measured Parameters: LXY, LXYmax, LXeq, LXpeak, LAvg, LXIeq, LTM3, LTM5, LAE. Where X is the frequency weighting A, C or Z and Y represents time weighting Fast (F), Slow (S) or Impulse (I). Some weightings simultaneously measured where appropriate. 8 hour dose values: LAep,d, LEX,8h, TWA, % Dose, including projected values. Other values: Pa^2Hr and Pa^2s, motion % and LASmax: time above exceedance level.

To Order

Specify	Description
OW-N-5PKG	5 device package
OW-N-DVE	1 x OmniWear Noise device
OW-N-CHGR	1 x OmniWear Noise charging dock

Accessories

OW-N-WS	1 x OmniWear Noise replacement windscreen
PC18	Power supply

Kits

OW-N-KIT5	5 device kit with Chargers, Boots, PSU, Calibrator & Case
OW-N-KIT10	10 device kit with Chargers, Boots, PSU, Calibrator & Peli-Case
OW-N-KIT20	20 device kit with Chargers, Boots, PSU, Calibrator & Peli-Case

For OmniWear sales and support please contact Casella:
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For more information on the TSI OmniWear Noise™ Dosimeter please visit: **tsi.com/omniwear**

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

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Specifications are subject to change without notice.

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