# Dustlight®

## PERSONAL DUST AND WELDING FUME MONITOR

Product Code: **R23003.3**

Discover the ultimate portable dust monitor engineered for real-time air quality measurement.

**MADE IN GERMANY**

there's safe and there's **maxisafe**®

# Dustlight®

## Your Portable Solution for Dust and Welding Fume Monitoring

Dustlight is not just a device; it's a crucial tool to help protect the health and safety of workers in dust-prone environments. By providing continuous, real-time monitoring of dust levels, Dustlight helps ensure compliance with occupational health standards and fosters a proactive approach to workplace safety.Its compact size, ease of use, and reliable performance make it the ideal solution for anyone needing to manage dust exposure effectively.

## Product Features

### REAL-TIME DUST MONITORING
Accurately measures dust particles, providing instant feedback on air quality to help prevent respiratory illnesses caused by prolonged dust exposure. With the Dustlight app you can download a CSV file immediately, showing the dust levels over your selected time period.

### THREE-COLOUR TRAFFIC LIGHT INDICATOR
A clear, intuitive display that changes from green to yellow to red based on dust and fume concentration levels, alerting users to the need for protective measures.  Shows current dust or fume concentrations and averages over time, allowing users to monitor air quality trends throughout the workday.

### BLUETOOTH CONNECTIVITY
Syncs with the Dustlight app for easy access to historical data, detailed analysis, and personalised settings adjustments.

### MODULAR MOUNTING SYSTEM
Easily attaches to belts, straps, and clothing patches, ensuring the Dustlight is always within reach and ready to use.

### LONG BATTERY LIFE
The rechargeable lithium-ion battery offers up to 40 hours of monitoring in eco mode, making it ideal for long shifts and extended use in the field.

### ROBUST DESIGN
Shock-resistant and built to withstand harsh conditions, the Dustlight is perfect for use in demanding industrial environments.

## A simple traffic light system to warn you instantly.

**GREEN**
Air quality is safe.

**YELLOW**
Caution is advised; dust levels are approaching unsafe limits.

**RED**
Dangerous dust concentrations; immediate action is needed.

maxisafe®

# Application-specific configurations

As the exact composition of dust and welding fume density is often unknown in numerous areas of application, an intelligent algorithm based on sum parameters is used. This enables Dustlight to precisely calculate the mass concentration even without knowing the exact composition of the dust.

The intelligent Dustlight algorithm is highly effective for most applications. However, in environments where specific dust or fume particles have been identified, Dustlight offers tailored material configurations of the algorithm. These particle-specific configurations are designed to increase accuracy of known particles providing more reliable monitoring for teams.

## Here are examples of application-specific configurations:

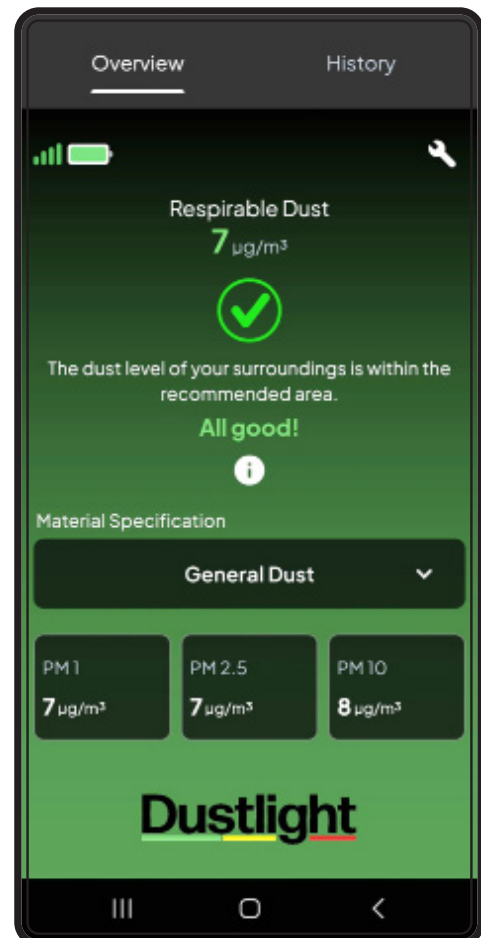1. **HAZARDOUS DUST DETECTION**
   The standard configuration for Dustlight measures respirable dust to levels PM1, PM2.5 and PM10.

2. **WELDING FUME DETECTION**
   This application-specific configuration is adapted to environments where welding fumes and metal dust are mainly present. The algorithm was created with various welding processes (e.g. TIG, electrode welding) and a wide variety of materials and metal dust to be welded.
   **(Price on application)**

3. **WOODWORKING DUST DETECTION**
   This application-specific configuration is adapted to environments where mainly wood dust from hardwood and softwood is present.
   **(Price on application)**

# Dustlight Real Time – Smarter Dust Monitoring

**REAL-TIME AIR QUALITY INSIGHTS, ANYTIME, ANYWHERE**

The Dustlight App is your pocket-sized air quality assistant, designed to help teams monitor, manage, and respond to dust exposure with ease. Whether you need basic monitoring for free or advanced management tools, Dustlight has the right solution for you.

**DATA ANALYSIS**

With the Dustlight app, you can use the measurements from the device's internal memory and use the data logger function. Access real-time data with graphs and downloadable CSV files for your own research and tracking. Connect multiple devices to monitor your site.

**THRESHOLDS**

- Adjust the warning thresholds and limits to meet the legal requirements of your industry / application
- Personalise the warning thresholds and limits.
- Adjust the warning sounds and displays on the device



**THE ULTIMATE COMPANION APP**

Customise limit values and warning thresholds

Average and maximum values at a glance

Adjust device settings for brightness and volume

Graphs for visual overview of values

| BASIC PLAN<br>(Included) | BUSINESS PLAN<br>(Price on application) |
|---|---|
| Perfect for individuals and small teams who need simple, on-the-go monitoring. | For teams and workplaces needing comprehensive monitoring, reporting, and multi-device management. |
| ✔ **iOS & Android Compatible** – Access from any smartphone | ✔ **Live Data Access** – Monitor exposure levels in real time |
| ✔ **Live Data Display** – Get real-time air quality insights | ✔ **Cloud Storage** – Securely store and access data from anywhere |
| ✔ **CSV Data Export** – Download and analyse measurement data | ✔ **PDF Report Generation** – Generate professional reports in seconds |
| ✔ **Local Data Storage** – Secure, offline access to historical readings | ✔ **Device Management** – Assign roles, track usage, and control up to 15 devices |
| ✔ **Device Management** – Connect and track your Dustlight sensors | ✔ **Material-Specific Calibrations** – Tailor measurements to different environments |
| ✔ **Custom Alerts** – Set thresholds and receive notifications | ✔ **Automated Insights** – Make data-driven decisions effortlessly |
| ✔ **User-Friendly Interface** – Intuitive, efficient, and easy to use | ✔ **Web-App Access** – Manage everything from a central dashboard |

**Corporate plan coming soon! For teams with 15+ devices.**

## Choose the right plan for your needs