



Gilian® Dustlight

Personal Dust Monitor

Operation Manual

SENSIDYNE®

Industrial Health & Safety Instrumentation

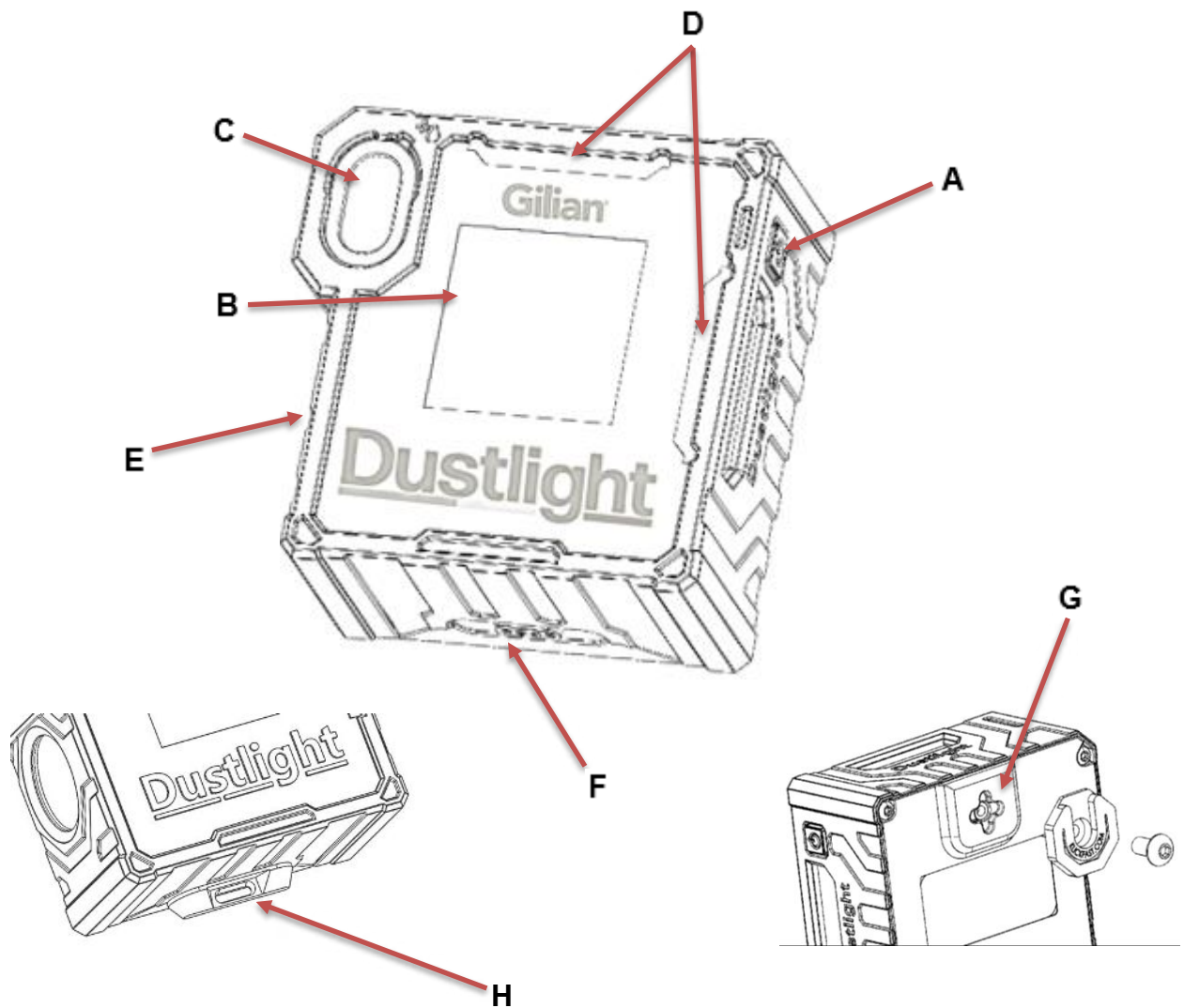
1000 112TH Circle N, Suite 100 • St. Petersburg, FL 33716 USA

(800) 451-9444 • +1 (727) 530-3602

www.Sensidyne.com • info@Sensidyne.com

REF 360-2301-01 (Rev B)

Gilian Dustlight Identifiers:



A Power/Control Button

B Display

C Inlet and Filter Screen

D Status and Notification LED

E Exhaust Port

F Magnetic Charging Port

G Belt Clip and Klick-Fast Mounting System

H Magnetic Charging Port Cover

Quality Policy Statement

At Sensidyne, we are committed to providing products and services that consistently meet customer needs and comply with all applicable statutory and regulatory requirements.

Through ongoing review of our designs, supplier performance, and customer feedback we strive to ensure continuous improvement.

All employees at Sensidyne share the responsibility to provide products that are produced efficiently and economically representing the best value to our customers. We are committed to meeting or exceeding customer expectations in everything we do.

Sensidyne, LP

Warranty

Sensidyne warrants that, at the time of delivery, the Gilian Dustlight shall be free of all defects in workmanship and material. Sensidyne will repair or replace, at its sole option, any Gilian Dustlight found to be defective by Sensidyne, if notified by Purchaser within the Warranty time period.

The warranty time period shall be for one (1) year from the date of original shipment by Sensidyne, except as noted below.

- A. This warranty shall be null and void on any product which:
1. Is operated or used in excess of the product's operating specifications; or
 2. is not properly maintained in accordance with its maintenance manual or specifications; or
 3. has been repaired or modified by persons other than authorized Sensidyne personnel or Factory Trained Service Centers, unless such work is authorized in advance in writing by Sensidyne; or
 4. has been damaged, abused, or misused.
- B. Warranty on Service and Repairs:
1. Goods, which have been repaired or replaced during the warranty period, are warranted only for the remainder of the unexpired portion of the original warranty period.
 2. Repairs or service provided not pursuant to warranty: 180 days from date of shipment by Sensidyne.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT BEING LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED, AND CONSTITUTES THE ONLY WARRANTY OF SENSIDYNE WITH RESPECT TO GOODS SOLD OR DELIVERED.

Table of Contents

Gilian Dustlight Identifiers: II

Quality Policy Statement III

Warranty IV

Table of Contents V

SECTION ONE: Preface 8

SECTION TWO: Introduction 14

2. Product Description 14

2.1. Product Specifications 15

SECTION THREE: Set-Up 16

3. Preparation 16

3.1. Operating Modes 16

3.1.1. Setup 16

3.1.2. Charging the battery 16

3.1.3. Measuring mode 17

3.1.4. Standby 17

SECTION FOUR: Navigation 18

4. Navigation and Operation 18

4.1. Power Up 18

4.2. Startup sequence 18

4.3. Power Down 18

SECTION FIVE: Display Screens 19

5. Display Screens 19

5.1. Status bar 19

5.2. Home Screens 20

5.3. PM Size Distribution 22

5.4. History Graph 22

5.5. QR Code 23

5.6. Device Info 23

5.7. Country Select and Setup 24

SECTION SIX: Optical Displays 25

6. Optical Display Devices 25

SECTION SEVEN: Acoustic Warnings 26

7. Acoustic Alarms 26

SECTION EIGHT: Connections and Interfaces.....	27
8. Connections and Interfaces	27
SECTION NINE: Wearable Accessories.....	28
9. Klickfast System	28
9.1. Disassembling the clip	28
9.2. Mounting the Klick-Fast connector	28
9.3. Accessories	29
SECTION TEN: Commissioning and Setup	30
10. Commissioning the Gilian Dustlight.....	30
10.1. Setting up the Gilian Dustlight.....	30
10.1.1. Limit values.....	30
10.1.2. Operating Modes.....	31
SECTION ELEVEN: Software	32
11. Setting up the Software.....	32
11.1. Setting Up the App.....	32
11.1.1. Basic Plan.....	32
11.1.2. Professional Plan	33
11.1.3. Enterprise Plan	33
11.2. Structure of cloud-based software plans	34
11.2.1. User Accounts.....	34
11.2.2. Organizations.....	34
11.2.3. Software Licenses.....	35
11.2.4. Organization Roles.....	35
11.3. Creating an Account	36
11.3.1. Create New Account	36
11.3.2. User Information and Passwords.....	36
11.3.3. Email Verification	37
11.3.4. Log In and Password.....	37
11.3.5. Account Settings	38
11.4. Upgrade to Cloud-based software plans (Professional or Enterprise)	39
11.4.1. Upgrade Plan or Join Organization.....	39
11.4.2. Purchasing Subscription Tokens	40
11.4.3. Creating a New Organization.....	40
11.4.4. Join Existing Organization	41

11.4.5. Inviting Users	42
11.4.6. Joining the organization as team member and user	43
11.5. Connecting Your Gilian Dustlight	43
11.6. User Management	45
11.6.1. Removing Dustlights from an organization	45
11.7. License Management (Admin Role Required)	46
11.8. Extending Licenses.....	47
SECTION Twelve: Operating Gilian Dustlight.....	48
12. Operation and Usage Warnings	48
12.1. Warning of Residual Risks	48
12.2. Charging the Gilian Dustlight	48
12.3. Switch on Gilian Dustlight	49
12.4. Switch off Gilian Dustlight	49
12.5. Operating Gilian Dustlight	49
SECTION THIRTEEN: Maintaining Gilian Dustlight.....	50
13. Maintenance	50
13.1. Loss of Warranty Claims	50
13.1.1. Unauthorized opening of the housing	50
13.1.2. Changes to the device.....	50
13.1.3. Independent replacement of components	50
13.2. Maintenance and Calibration	51
13.3. Repair.....	51
13.4. Troubleshooting	52
13.4.1. Problem: The device cannot be switched on	52
13.4.2. Problem: The device cannot be charged	52
13.4.3. Problem: The device does not measure correctly	52
13.4.4. Problem: The device shows an error message on the display	53
SECTION FOURTEEN: Cleaning.....	54
14. Cleaning	54
SECTION FIFTEEN: Storage	56
15. Storage.....	56
SECTION SIXTEEN: Waste Disposal.....	57
16. Waste Disposal.....	57

SECTION ONE: Preface

Proprietary Notice

The intended use of this manual is exclusive to owners of Gilian Dustlight Personal Dust Monitors. The material within this manual is proprietary information and is to be used only to understand, operate, and service the instrument. By receiving this document, the recipient agrees that neither this document, the information disclosed within, nor any part thereof shall be reproduced or transferred, physically, electronically or in any other form or used or disclosed to others for manufacturing or for any other purpose except as specifically authorized in writing by Sensidyne, LP.

Copyright Notice

© 2026 Sensidyne, LP All Rights Reserved. Reproduction, transmittal, transcribing, storing in a retrieval system or translation of this document in part or in its entirety is strictly prohibited without the prior written permission of Sensidyne, LP.

Trademark Notice

Gilian names and logos are registered trademarks of Sensidyne, LP. Other trademarks and service marks used in this document are the property of their respective companies and are used only for informational and explanatory purposes.

Firmware/Software License

The firmware and the associated PC application software installed in or provided with the Gilian Dustlight Personal Dust Monitor is the property of Latai GmbH. The firmware/software is protected by international copyright laws and is licensed for specific use with the Gilian Dustlight Personal Dust Monitor. The user may NOT reverse-engineer, disassemble, decompile, or make any attempt to discover the source code of the firmware/software. The firmware/software may NOT be translated, copied, merged or modified in any way. The user may NOT sublicense, rent, or lease any portion of the firmware/software without Written Authorization from Sensidyne, LP. The right to use the firmware/software terminates automatically if any part of this license is violated.

Disclaimer

THE SELLER ASSUMES NO RESPONSIBILITY WHATSOEVER, TO ANY PARTY WHOSOEVER, FOR ANY PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH RECEIVED BY OR RESULTING FROM, IN WHOLE, OR IN PART, THE IMPROPER USE, INSTALLATION, OR STORAGE OF THIS PRODUCT BY THE USER, PERSON, FIRM, ENTITY, CORPORATION OR PARTY NOT ADHERING TO THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL, OR OTHERWISE PROVIDED BY THE SELLER OR FROM NOT ADHERING TO ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY LAWS AND REGULATIONS.

THE SELLER SHALL NOT BE LIABLE FOR DIRECT, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR OTHER DAMAGES RESULTING FROM THE SALE AND USE OF ANY GOODS AND SELLER'S LIABILITY HEREUNDER SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF ANY GOODS FOUND DEFECTIVE.

FCC Certification Statements

FCC Statements for USA

1) Part 15 Clause 15.105:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

2) Part 15 Clause 15.21

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

3) Part 15 Clause 19(a)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

4) RF Exposure Information

This device complies with FCC radiation exposure requirements for portable devices as defined in FCC 47 CFR §2.1093. The Gilian Dustlight has been tested and certified for use directly on the body without the need for a separation distance. To maintain compliance with FCC RF exposure limits:

- Operate the device only as instructed in this manual.
- Do not modify the antenna or add any external RF components.
- Use only accessories approved by Sensidyne, LP.



WARNING - Unauthorized Modifications

Changing or modifying the device in any way not approved by the manufacturer may result in malfunction, regulatory non-compliance, and loss of FCC authorization to operate the device.

FCC Statements for Canada

1) CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- 1) l'appareil ne doit pas produire de brouillage;
- 2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

2) RF Exposure Information

This device complies with the portable device RF exposure limits specified in Innovation, Science and Economic Development Canada (ISED) RSS-102, Issue 5.

The Dustlight has been evaluated for use directly on the body (body-worn operation) without requiring a separation distance. To ensure continued compliance:

- Follow all usage instructions as provided in this manual.
- Use only Latai GmbH-approved accessories.
- Do not modify the RF components or antenna structure.

Informations sur l'exposition aux RF

Cet appareil est conforme aux limites d'exposition aux radiofréquences (RF) pour les appareils portables, conformément à la norme RSS-102 d'Innovation, Sciences et Développement économique Canada (ISDE), édition 5.

Le Dustlight a été évalué pour un fonctionnement porté sur le corps sans nécessiter de distance de séparation. Pour garantir la conformité :

- Suivez toutes les instructions d'utilisation de ce manuel.
- Utilisez uniquement les accessoires approuvés par Latai GmbH.
- Ne modifiez pas les composants RF ou l'antenne.



WARNINGS



READ AND UNDERSTAND ALL WARNINGS AND INSTRUCTIONS BEFORE USE.

Failure to read, understand, and comply with ALL accompanying literature, instructions, product labels, and warnings could result in property damage, severe personal injury, or death.

Read and understand ALL applicable environmental health and safety laws and regulations before operating this product. Ensure complete compliance with ALL applicable laws and regulations before and during the use of this product.

Check the Gilian Dustlight Personal Dust Monitor before use. Faulty or incomplete products must no longer be used.

Although the device is designed for harsh environments such as construction sites, it should be handled with care like all optical and electrical devices. After a fall or other mechanical impact, the device must be checked by an Authorized Service Center.

If faults or failures occur in the product or product parts, stop using the product immediately and inform an Authorized Service Center.

Store the product only at temperatures between 0°C and 40°C and away from solvents, solvents, exhaust gases or fuels.

DO NOT remove, cover, or alter any label or tag on this product, its accessories, or related products.

UNDER NO CIRCUMSTANCES should this product be used except by qualified, trained and technically competent personnel.

The Gilian Dustlight Personal Dust Monitor is intended for both indoor and limited outdoor use. The unit is not waterproof. NEVER submerge the unit in water. Device failure, faulting or user injury may result. Protect the Dustlight from rain and moisture.


The Gilian Dustlight Personal Dust Monitor is **NOT** Intrinsically Safe. Do not use the product in potentially explosive atmospheres.

DO NOT operate this product should it malfunction, require repair, or have a cracked or broken case or other visible or known damage.

DO NOT repair or modify this product, except as specified in this Operation Manual.

The only user-replaceable parts are the Inlet Screens and Belt Clips.

Use ONLY specified Gilian Dustlight parts when performing maintenance procedures described in this manual. All other Service should be performed by Sensidyne Authorized Service Departments only.

Attention laser radiation - Class I	
	<p>This device fulfils the safety requirements of laser class 1 in accordance with IEC 60825-1:2014 and is classified as safe. Do not modify or disassemble the device as this can lead to significant safety risks.</p>

This product uses rechargeable Lithium Ion (Li-Ion) batteries. Always fully charge before use. DO NOT attempt to deeply discharge the battery pack.

DO NOT open the case, charge or replace batteries in an explosive atmosphere.

Use only battery pack specified in the Parts List. Battery Pack is nominal 3.8V (4.2V max.) Maximum allowable charging voltage U_m : 4.2 Volts.

Caution: Battery may become warm during charging. Li-Ion batteries must be promptly disposed of in a manner that corresponds to local regulatory requirements for Lithium Batteries. Keep away from children. The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not disassemble, heat above 212° F (100° C), or incinerate. Use only Gilian Dustlight battery. Use of another battery may present a risk of fire or explosion.

Do not short-circuit battery pack. Do not connect the + and - terminals with metals (such as wire). Do not carry or store the battery pack with metal objects (such as wire, necklace, or hairpins). If the battery pack is short-circuited, excessive large current will flow and then heat generation, smoking, rupture, or burning will occur.

Never charge the Dustlight in the vicinity of metalworking operations. Charging must only be performed outside of areas with airborne metallic particles or electromagnetic interference.

Inspect the charging port regularly. Before each charge, make sure both are clean and undamaged. Remove any visible contamination using compressed air or a clean, dry cloth. The Dustlight is equipped with a magnetic cap specifically designed to protect the charging connector from conductive dust and metal particles. The cap may be utilized whenever the device is not being charged to keep the magnetic charging port clean.

Do not expose the Dustlight to welding arcs, molten metal, or grinding sparks. While the enclosure is impact-resistant, direct exposure may damage sensitive components or lead to measurement inaccuracies.

Do not incinerate or heat the battery pack. These cause the melting of insulator, damage of gas release vent or safety function, or ignition of electrolyte. The above mentioned actions cause heat generation, smoking, rupture, or burning.

Do not reverse-charge or reverse-connect. The battery pack has polarity. In case the battery pack is not connected with charger or equipment smoothly, do not force them to connect, but do check polarity of battery pack. If the battery pack is connected to opposite polarity with charger, it will be reverse-charged and abnormal chemical reaction will occur. It causes heat generation, smoking, rupture, or burning.

If the Gilian Dustlight Personal Dust Monitor comes into contact with a destructive substance(s) it is the responsibility of the user to take suitable precautions that prevent the pump from being adversely affected, thus ensuring that the instrument is not compromised. Destructive substances include acidic liquids or gases that may attack metals, solvents that may affect polymeric materials, other solvents, or corrosives.

Example of Product Labeling shown below.



Rear Label, Main Housing

Regulation	Certification ID
USA(FCC)	2BQIB-DL230033
Canada(IC)	34240-DL230033

SECTION TWO: Introduction

2. Product Description

The Gilian Dustlight is a direct read dust measuring instrument with display of the current dust level concentrations. The device was designed for orientating measurement in working environments where fine dust poses a health risk. The device is designed for portable use and works with an internal Lithium Ion rechargeable battery.

The Gilian Dustlight is used to monitor the concentration of fine dust particles in the air and provide users with direct feedback on the air quality in the workplace using a simple color system in green, yellow and red, presented on the integrated high-resolution color display.

Gilian Dustlight provides information about the size distribution of the particles but cannot give details about the material properties of the dust.

The Gilian Dustlight reported concentrations should be used for orientational measurement, and does not replace the need for regulatory methods of gravimetric analysis or substance specific analysis, which is needed for occupational exposure limit value measurement as part of the risk assessment process.

The Gilian Dustlight is intended exclusively for use by the following user groups in the utilization environments and operating modes described. In all other scenarios, it must be assumed that the device is not being used as intended.

Utilization groups:


Commercial and industrial users: The Dustlight is specially designed for use in commercial and industrial working environments. It is aimed at trained professionals who work in areas where it is important to monitor fine dust concentrations, such as on construction sites, in workshops or in industrial production facilities.

Utilization environment:

On roofed areas and in rooms enclosed on all sides: the Dustlight is optimized for use indoors, such as factory halls or workshops.

The device is not intended for use in splash water, including rain, in potentially explosive atmospheres or under extreme environmental conditions. The environment must correspond to the areas specified in the data sheet.

2.1. Product Specifications

Product name	Gilian Dustlight	
Dimensions	Length x width x height: 69 x 69 x 32, 5 mm (without clip)	
Weight	149 g	
Housing material	Housing in PC/ABS with protective layer in TPU	
Power Source	Internal Operating Voltage: 3.7 V Rechargeable lithium-ion battery (1700 mAh), charged via included USB to magnetic charging cable connected to 5V USB power adapters that qualify as Limited Power Sources (LPS). Battery has been approved for shipping and transport per UN/DOT 38.3 and has IEC 62133-2 (2nd Edition).	
Electric Safety	Overvoltage Category I, according to IEC 61010-1 Pollution Degree 2, according to IEC 60664-1	
Approvals	 EN 61010-1, IC, FCC	
Storage Temperature	- 20 to + 40 °C	
Operating Temperature	- 10 to + 40 °C	
Charging Temperature	0 to 30 °C	
Operating/storage humidity	0 - 80 % RH, non-condensing	
Operating pressure range:	700 to 1100 hPa (app. -300 to +3000 meters from sea level)	
Alerting	LED display with good visibility, LCD colour display, acoustic signal, app notifications	
Measuring method	Photometric (laser-based)	
Measuring interval	Depending on the selected mode from every second to every 60 seconds, after start 30s until the first stable measured value	
Measuring range	Concentration: 0 - 10 000 µg/m ³ Resolution: 1 µg/m ³ Particle sizes: 0.3-10 µm	
Accuracy for PM1 and PM2.5	0-100 µg/m ³ :	± 5 µg/m ³ AND ± 5 %
	100-5,000 µg/m ³ :	± 10 %
Accuracy for respirable dust and the PM10 fraction of inhalable dust	0-100 µg/m ³ :	± 25 µg/m ³
	100-5,000 µg/m ³ :	± 25 %

SECTION THREE: Set-Up

3. Preparation

The starter kit includes the Gilian Dustlight instrument, USB-A/magnetic charging cable, and Quickstart guide. The instrument arrives fully assembled.

Note – Power Supply is not included in starter kits.

IMPORTANT

Before proceeding, you **MUST** charge the battery to full capacity prior to using the pump.

Only use the supplied magnetic charging cable and a suitable USB power adapter. The use of unauthorized accessories can cause damage to the device and invalidate the warranty.

Charge the device on a stable, non-flammable surface away from liquids for charging. Make sure that the charging port on the device is clean and dry to ensure an optimal connection.

Monitor the device during the charging process and disconnect it from the mains adapter when charging is complete. This prevents overcharging and optimizes the service life of the battery.

Avoid exposing the device to excessive heat during the charging process. Do not expose it to direct sunlight or other sources of heat.

3.1. Operating Modes

The operating modes of the Dustlight can be divided into four states:

3.1.1. Setup

This mode is used to initialize and calibrate the device before use or after maintenance. This also includes establishing a Wireless connection with the Dustlight app.

3.1.2. Charging the battery

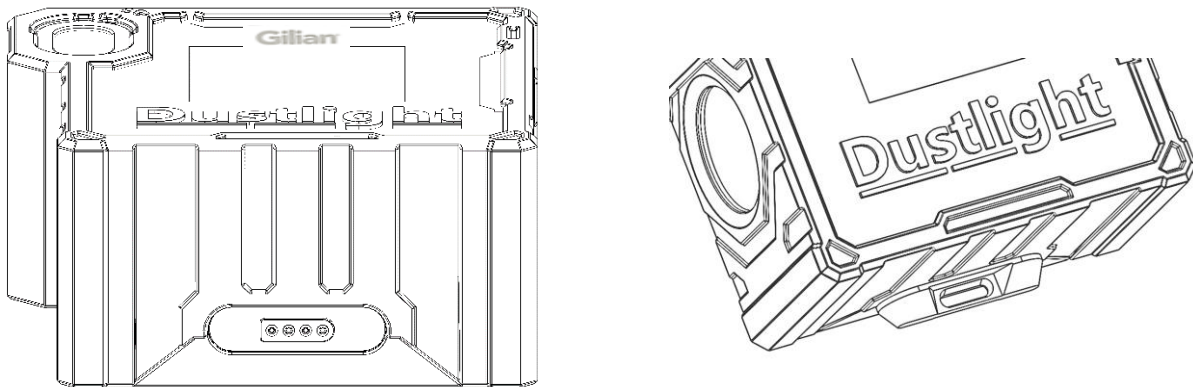
The Dustlight is connected to the mains via the magnetic charging cable and a USB power supply, and the internal battery is charged. While charging, the device can be in both measuring mode and standby mode.

Only use the magnetic charging cable supplied to charge the device. The cable is specially designed for Gilian Dustlight devices and ensures safe and efficient charging.

Connect the charging cable to a USB power supply unit. You can either use a USB power adapter that you already own or purchase one from us. Make sure that the USB power supply meets the recommended specifications (5V, at least 1A charging power) to ensure optimum charging speed.

Connect the magnetic end of the charging cable to the connection on the Gilian Dustlight. The charging process starts automatically and the display on the screen shows the progress. The charging process stops automatically when the device is fully charged.

The DUSTLIGHT has a four-pin magnetic connection on the underside of the device. This is used to supply the device with power via the pin connector of the original USB charging cable. Due to its design, the connection is protected against dirt, splash water and reverse polarity. The Dustlight has an accessory protective magnetic cap specifically designed to protect the charging connector from conductive dust and metal particles. The cap may be utilized whenever the device is not being charged to keep the magnetic charging port clean.



3.1.3. Measuring mode

This is the normal operating mode of the Dustlight after it has been activated via the power button. In this operating mode, the LEDs on the luminous areas light up and the measurement is active. The activation time of the display and the measurement interval are configured by the setting in the app.

3.1.4. Standby

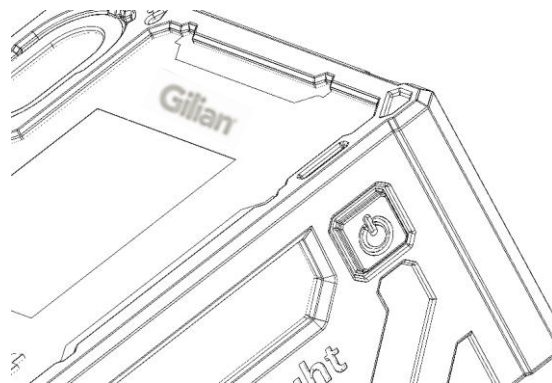
In this mode, the Dustlight does not measure, and the display and luminous areas are deactivated. Due to the integrated rechargeable battery, the device's electronics are still energized.

SECTION FOUR: Navigation


4. Navigation and Operation

The Gilian Dustlight uses an intuitive single-button for menu navigation and operation.

The Gilian Dustlight has a single button as a control element, which is located on the right-hand side of the housing in the upper third. To protect it from dust, the button is integrated into the flexible part of the housing and is labelled with an on/off symbol. The button distinguishes between a single, short press to navigate and a long press (hold down) to switch the device on and off.




4.1. Power Up

Power instrument ON by pressing and holding down (about 2 seconds) the  button until the device turns on.

4.2. Startup sequence

As the instrument starts it goes through a system initialization that checks the instrument sensor, and continues on to the Home Screen.

4.3. Power Down

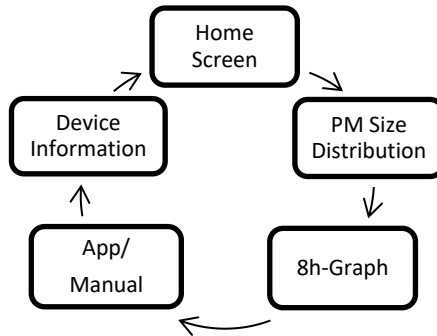
Turn power OFF from any display by pressing and holding down the  button. After approximately two seconds, the LED and Display Screen will power off, and the shutdown sequence is complete.

Note: The Gilian Dustlight can be powered off while a sample is running.

SECTION FIVE: Display Screens

5. Display Screens

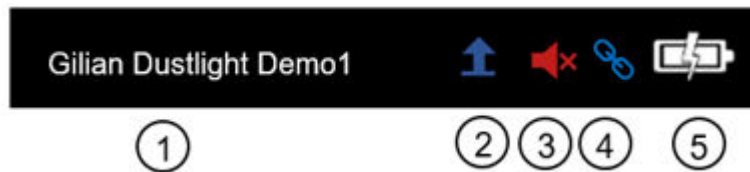
The Gilian Dustlight has a high-resolution 1.54" LCD color display. In addition to the start-up screen, the instrument has five other displays with different content, which are shown below.



To switch between the displays, briefly press the side button to move one display to the right. After the fifth display, the first display appears again.

5.1. Status bar

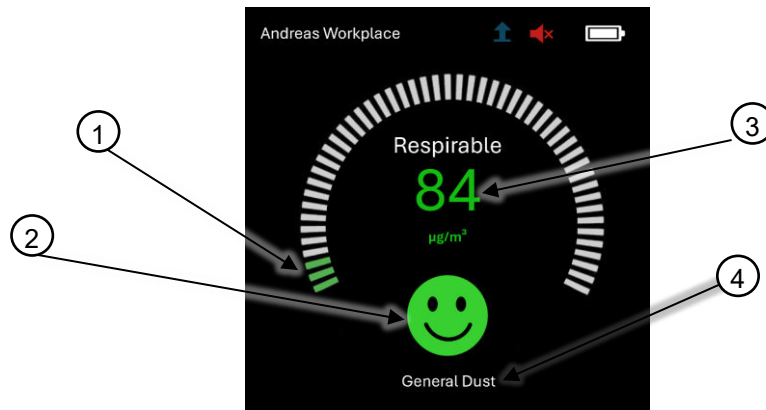
The Status bar is located at the top of each screen.



Meaning	
1	Device name
2	Synchronization with the app in progress
3	Acoustic warning is turned off
4	Dustlight is connected to the app via wireless communication
5	Battery charge status, the flash indicates that the battery is currently being charged.

5.2. Home Screens

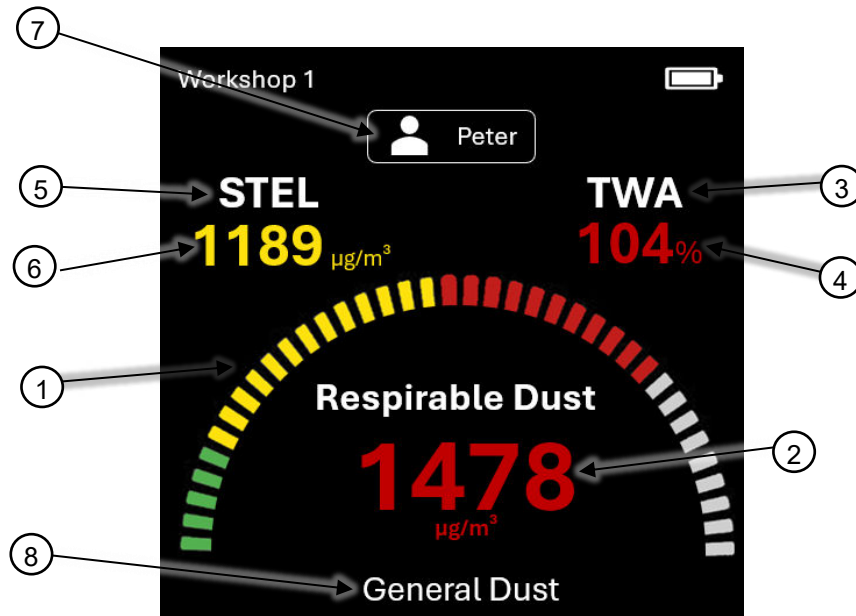
The Basic Home Screen contains the following:



Meaning	
1	Scale representation of the current dust pollution
2	Graphic display of the current warning level, depending on the setting in the pp this can be a smiley or Warning Symbol.
3	Value of the current respirable dust concentration in $\mu\text{g}/\text{m}^3$
4	Currently selected material configuration

The Professional or Enterprise Home Screen contains the following:

This screen is only available on Dustlights connected to a Professional or Enterprise Software Plan and replaces the Smiley/Warning Theme screen. It can be selected under Device Settings > Theme > Exposure Theme.



Meaning	
1	Scale representation of the current dust pollution
2	Value of the current respirable dust concentration in $\mu\text{g}/\text{m}^3$
3	TWA warning (white if okay, red when the daily limit has been reached) and the current percentage of the daily dose.
4	Currently reached TWA percentage of the daily dose (white if okay, red when the daily limit has been reached)
5	STEL warning (white if okay, red when limit has been exceeded)
6	Current STEL value, color-coded in alignment with the selected warning and limit value
7	Name of the current user account selected
8	Currently selected material configuration

5.3. PM Size Distribution

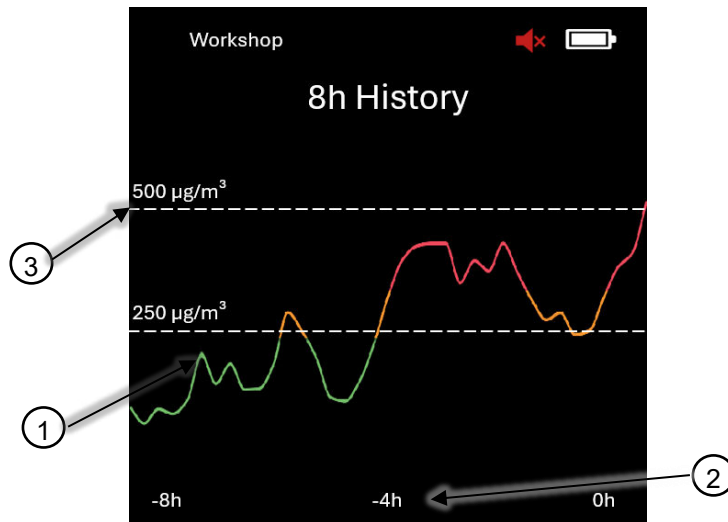
The PM Size Distribution screen contains the following:



Meaning	
1	Current concentration of that PM1 size fraction in $\mu\text{g}/\text{m}^3$
2	Current concentration of that PM2.5 size fraction in $\mu\text{g}/\text{m}^3$
3	Current concentration of that PM4 size fraction in $\mu\text{g}/\text{m}^3$
4	Current concentration of that PM10 size fraction in $\mu\text{g}/\text{m}^3$

5.4. History Graph

The History Graph screen contains the following:



Meaning	
1	Graph of the measured values
2	X Axis with the last 8 hours
3	Y Axis scaled automatically according to peak measurements in $\mu\text{g}/\text{m}^3$

5.5. QR Code

The QR Code screen can be scanned with a mobile phone (some models require an app for this) and takes you to your Dustlight website. Here you will find further information, the operating instructions, and the download links for the app for Android and iPhone.



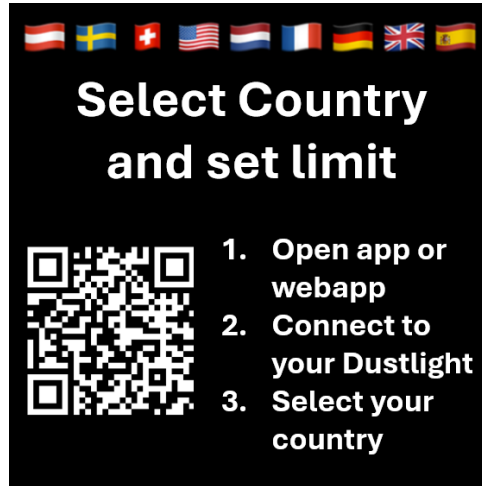
5.6. Device Info

The Device Info screen displays device information, including the software version of the Dustlight, the country in which the Dustlight is operated and its applicable limit values for the particulate matter content of the air, which are automatically adopted via the app.



5.7. Country Select and Setup

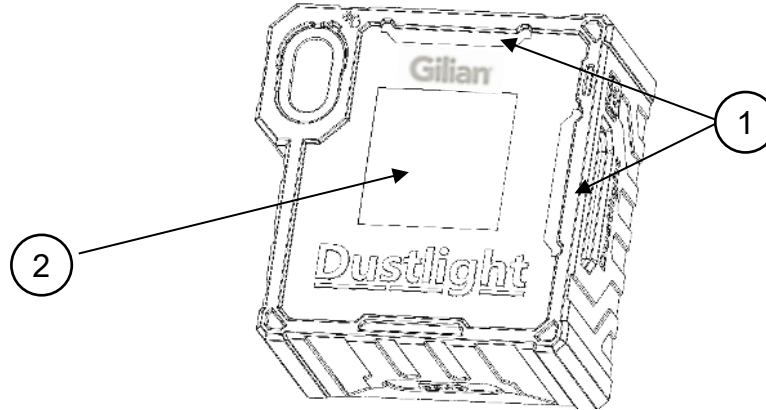
This screen appears during the first startup of the Gilian Dustlight. Please scan the QR code and Download the App or open the Web App and connect your Gilian Dustlight. This critical step allows your Gilian Dustlight to know in which country it is being used and the correct default limits are selected. After the first connection this screen will not be shown again. You can dismiss this screen by clicking the button.



SECTION SIX: Optical Displays

6. Optical Display Devices

The Dustlight has two optical indicators, the luminous areas (1) and the display (2).



The luminous areas are located on the front, top and right-hand side of the device and can cover the RGB color spectrum. The meaning of the colors in detail is shown in the following table:

Color	Meaning
Green	The current measured value is below the set limit value, the dust load is in a low range.
Yellow	The first limit value has been reached, there is a clear exposure to fine dust particles. Preventive measures should already be taken here to reduce the release of dust.
Red	The second limit value was exceeded, and the dust concentration is in a range that is harmful to health in the long term. More effective measures should be taken to avoid dust and personal protective equipment should be worn if dust exposure cannot be avoided.
Blue	The device is waiting for confirmation of the wireless connection with a smartphone and the Dustlight app. Please press the button on the Dustlight to confirm the connection.
Purple	There is an error on the device. Please check the display and try to rectify the fault using the help in section Error! Reference source not found. or contact the manufacturer.

SECTION SEVEN: Acoustic Warnings

7. Acoustic Alarms

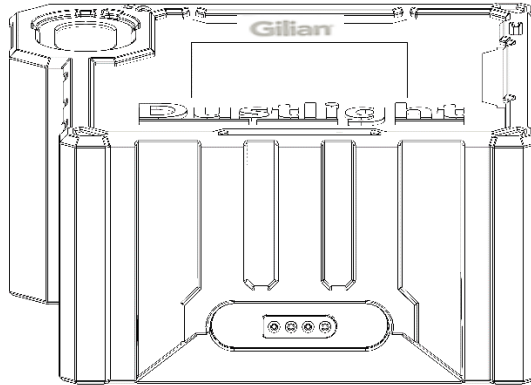
The Gilian Dustlight features an acoustic warning with a volume of 85 dB at a distance of 10 cm. This can be deactivated via the app if required. Two types of acoustic signals are implemented; one short beep, or three short beeps.

Meaning of the signaling tones	
One short beep	First warning level reached, the device changes from green to yellow and confirms this with a single beep.
Three short beeps	The second warning level is reached and the device changes from yellow to red and confirms this with three short beeps in quick succession.

SECTION EIGHT: Connections and Interfaces

8. Connections and Interfaces

The Gilian Dustlight has a four-pin magnetic connection on the underside of the device. This is used to supply the device with power via the pin connector of the original USB charging cable. Due to its design, the connection is protected against dirt, splash water and reverse polarity.

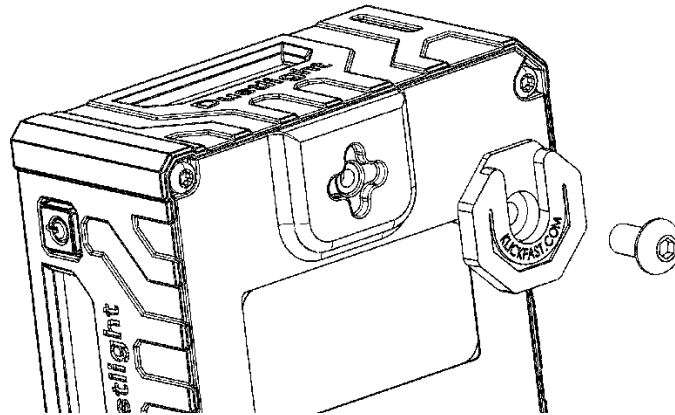


To connect to the free Dustlight app, the device has wireless communication. Further information on downloading, setting up, pairing, and using the app can be found in section 10.1.3.

SECTION NINE: Wearable Accessories

9. Klickfast System

The Gilian Dustlight is delivered ready for use and no further assembly steps are required. The device is supplied with a plastic clip that can be used to attach it to clothing.



9.1. Disassembling the clip

To remove the clip, loosen the Phillips screw on the back of the device in the clip by turning it anticlockwise. The clip and the screw can now be removed and replaced with the Klick Fast® connector or a new clip.

9.2. Mounting the Klick-Fast Connector

To mount the connector, insert it into the cloverleaf-shaped recess on the back of the device in the orientation shown and secure it by turning the enclosed screw clockwise. Make sure that the U-shaped opening of the adapter points towards the top of the Dustlight.

The screws supplied are already coated with locking lacquer to prevent accidental loosening of the screw. If the screw is opened several times, we recommend replacing it with a removable locking lacquer or using a new screw.



Caution!

Only use the screws supplied and never use longer screws than intended. Failure to do so may result in serious damage to the appliance and injuries. Do not use permanent screw locking varnish.

9.3. Accessories

If a fall-proof attachment to clothing, helmets or stationary equipment is required, the included clip can be replaced with the Klick Fast® connector, allowing the Gilian Dustlight to be used with all certified accessories from the Klick Fast® range.

To insert the instrument with mounted connector simply slide it in the accessory until you hear a clicking sound. To remove, turn the instrument 180 degrees and slide it out of the accessory.

The following accessories are available:

Item number	Name
811-2303-01	Klick Fast® - Connector for accessories
811-2304-01	Klick Fast® - Chest strap
811-2304-02	Klick Fast® - Bracelet black
811-2304-03	Klick Fast® - Clothing fastening
811-2304-04	Klick Fast® - Leather loop for belts
811-2304-05	Klick Fast® - Replacement belt clip
811-2305-01	Magnetic charging cable
811-0509-01-R	USB charger
811-2309-01	Magnetic Protective Cap, Replacement
811-2307-US	Kit, 6-Port USB Charging Hub, US Cord
811-2307-EU	Kit, 6-Port USB Charging Hub, EU Cord
811-2307-UK	Kit, 6-Port USB Charging Hub, UK Cord

SECTION TEN: Commissioning and Setup

10. Commissioning the Gilian Dustlight

The battery must be fully charged before use. To do this, remove the Gilian Dustlight and the supplied USB charging cable from the packaging and charge it as described in section 11.2.

Before each start-up, check the device and ensure the air inlet and air outlet grilles are free from visible damage. If damaged, contact your authorized service center or replace the air grille(s) yourself as described in section 12.

Before each use, ensure the air inlet and air outlet grilles are free of visible dirt and debris. If dirty, clean them with a damp cloth or brush. If there is dirt such as dried paint on the air inlet grille that cannot be removed, replace it as described in section 12.

10.1. Setting up the Gilian Dustlight

The Gilian Dustlight can be used immediately after purchase and does not require additional calibration, setup or connection to the app to start measuring.

However, to be able to use the full range of functions of the device, we strongly recommend downloading and setting it up via the mobile app, as this is the only way to change the settings on the device and view the measured values.

The following parameters can be adjusted via the app:

10.1.1. Limit values

The preset limit values above, which the Gilian Dustlight warns the user, correspond to the workplace limit values for Germany valid at the time of delivery. The default setting for the upper limit value (switch to the red warning display) is therefore 1250 $\mu\text{g}/\text{m}^3$, for the lower limit value (switch to the yellow warning display) 125 $\mu\text{g}/\text{m}^3$ (corresponds to 10% of the applicable limit value). The applicable pre-populated limit values for general dust in other countries can be selected utilizing the app if the Dustlight is operated outside Germany.

In addition, the high and low alarm limit values can also be customized for specific target substances and/or your own requirements.

Note - It cannot be guaranteed that the limit values stored in the app always comply with the latest regulations due to the constantly changing legal framework. For this reason, the pre-loaded limit values set for the color change are to be understood as examples. The responsibility for researching and correctly setting the limit values always lies with the end user.

10.1.2. Operating Modes

The Gilian Dustlight has various operating modes that influence the battery life. These modes include such factors as the measuring interval, display brightness, and wireless connectivity. The three modes are Continuous, Standard and Economy (Eco), and each utilizes a combination of active and passive monitoring to maximize data collection, visual display elements and battery saving factors.

All modes distinguish between active and passive operation. After switching on, the device is in active mode, after a certain time it switches to passive mode, in which it continues to measure and warn, but depending on the mode, different measures are taken to save energy. As soon as the button is pressed, the device switches back to active mode. The following table provides an overview of the different modes:

Operating mode:	Continuous	Standard	Eco
Change from active mode to passive mode after	5 minutes	5 minutes	30 seconds
Measuring interval Active Mode	every second	every second	every second
Measuring interval Passive Mode	every second	60 seconds	60 seconds
Wireless Connectivity	Permanently activated	Activated for 5 minutes after last button press	Activated for one minute after last button press
Light brightness Active Mode	high	high	low
Light brightness Passive Mode	high	high	low
Display brightness Active Mode	high	high	low
Display brightness Passive Mode	low	Display off	Display off
Battery life	up to 7 hours	up to 20 hours	up to 40 hours

In addition to the mode, the brightness of the illuminated surfaces and the display can also be adjusted to your own preferences via the app.

SECTION ELEVEN: Software

11. Setting up the Software

Gilian Dustlight software is structured into three plans: Basic, Professional, and Enterprise. The Basic plan is the default version after creating an account and is already included in your Gilian Dustlight purchase. The Professional, and Enterprise plans offer additional functions like cloud storage and require one software license per device, which can be bought from your distributor.

The Basic plan is the default version after creating an account and is already included in your Dustlight purchase. The Professional and Enterprise plans offer additional functions and require one software license per Dustlight device, which can be bought from your distributor.

11.1. Setting Up the App

The Gilian Dustlight app is available to download free of charge from the Google Play Store and the Apple App Store under the name "DUSTLIGHT".



(Via Sensidyne Website)



The software is also available as a browser based Web application (no download required) for computers with Google Chrome or Microsoft Edge browser, this can be reached under app.dustlight.com.

11.1.1. Basic Plan

The Basic Plan provides the following core functions within the free Gilian Dustlight app:

- Display of the current particulate matter values for airborne dust
- Review of the particle size distributions of inhalable dust (PM1, PM2.5, PM4 and PM10)
- Synchronization, storage, and display of historical values
- Graphical processing of the measured values
- Option to export the measured values as a .csv file
- Option to export basic PDF Report
- Configuration of limit values, brightness, measuring intervals and operating modes
- Configuration of the acoustic warning and the device name
- Overview of sensor service life and maintenance intervals, easy booking of services
- Update the device firmware
- Knowledge database on dust as a health hazard and the right protection

To pair the Gilian Dustlight with the app, follow the instructions in the app after downloading. By default, the instrument is ready for pairing for five minutes after

switching on and pressing the button and can be found via the app. You can recognize the device is paired by the blue chain link symbol in the status bar on the Gilian Dustlight screen. Tap the green button in the app to start the search. As soon as your Gilian Dustlight serial number is displayed in the list, select it. The device will then flash blue and show the pairing request on the display. Please press the button on the Gilian Dustlight to confirm the pairing. The pairing is now complete, and you can use the app with your instrument.

If your device is not in the list of devices found in the app, make sure that wireless function is enabled on your mobile device and the chain link icon is displayed in the Gilian Dustlight status bar. If icon is not displayed, press the side button on the device or restart it until the symbol appears and try the search again via the app.

11.1.2. Professional Plan

The Professional plan includes all Basic functions and extends them with additional features:

- Dustlight Cloud: after synchronization, all measurement values are automatically stored in the cloud, with unlimited storage capacity
- Access to data across all devices
- Access to the Dustlight web app for visualization and reporting on larger screens
- Monitoring of short-term and long-term exposure (STEL & TWA)
- Event logging (exceedances, warnings, or incidents)
- Additional material configurations included: wood dust, welding fumes, diesel particles and oil mist

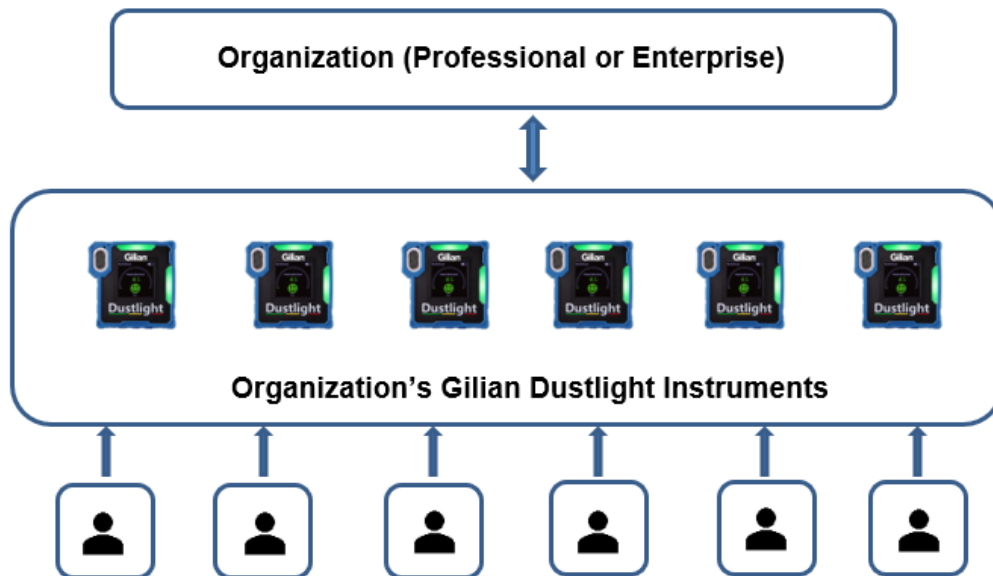
11.1.3. Enterprise Plan

The Enterprise plan is designed for companies with many Dustlight devices and larger teams. This plan enables efficient management and analysis of measurement data within organizations. It includes all Business plan functions and the following functions:

- Long-term analytics of dust exposure across teams and time periods
- Comprehensive fleet management for high numbers of Gilian Dustlight
- Creation and management of teams, roles, and hierarchies
- Centralized access to and evaluation of measurement data across teams

11.2. Structure of cloud-based software plans

This section provides an overview of the basic functionality of the Gilian Dustlight software and defines key terms.



11.2.1. User Accounts

To use the Gilian Dustlight software, every user must create a user account. User accounts are free and only an email address and name are needed. User accounts can then be assigned to organizations, giving this user access to the paid software features and measurement data of that organization. To become a member of an organization you either create a new one or get invited to an existing one. Both ways are described in detail in section 11.4.

11.2.2. Organizations

Gilian Dustlight is primarily used within companies. The highest level in the software structure is therefore always an organization. The first step in starting with the paid software plans is therefore to create an organization. This can be easily done directly from the mobile or web app.

In most cases, an organization corresponds to the entire company. In larger enterprises, however, it can make sense to create separate organizations for branches or departments. The key principle is: All Dustlight devices that should be managed together must be placed under the same organization.

As described in the above sections, there are two paid software plans: Professional and Enterprise. The selected plan always applies to the entire organization and to all associated devices. Mixing Professional and Enterprise licenses within a single organization is not possible.

11.2.3. Software Licenses

For every Gilian Dustlight device used with a paid software plan, a license is required. A license is defined by its associated plan (Professional or Enterprise), and its duration. Licenses are managed at the organization level and assigned to individual devices. Every user belonging to an organization can use all Dustlight devices of that organization. The data visible for the users in their software depends on the chosen plan and individual settings.

To obtain new licenses or extend existing ones you get license tokens from your distributor that can then be redeemed via the mobile or web app.

11.2.4. Organization Roles

User accounts can have two different roles in the organization. A User can use all functions included in their software plan like cloud storage or reports, change their account settings and add licenses to their organization. Software users with the Admin role can additionally invite new users to their organization or remove users and can assign licenses to devices.

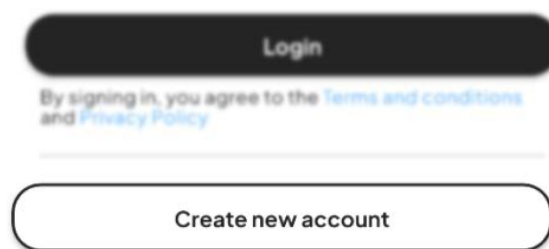
11.3. Creating an Account

This ensures that measurement data, device settings, and licenses are securely managed and linked to the correct user. An account also provides access to cloud functions, organizational roles, and reporting features.

Accounts must be set up to utilize the software. The account can be created either from mobile or web app and then be used across all devices.

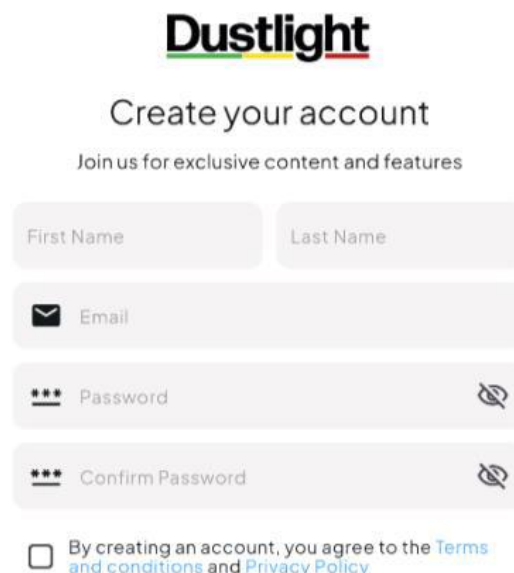
11.3.1. Create New Account

Open the Dustlight mobile or web app and tap on “Create new account.”



11.3.2. User Information and Passwords

Fill in your first and last name and your (company) email address. Set a password and confirm it by entering it again. Read and accept the Terms and Conditions.



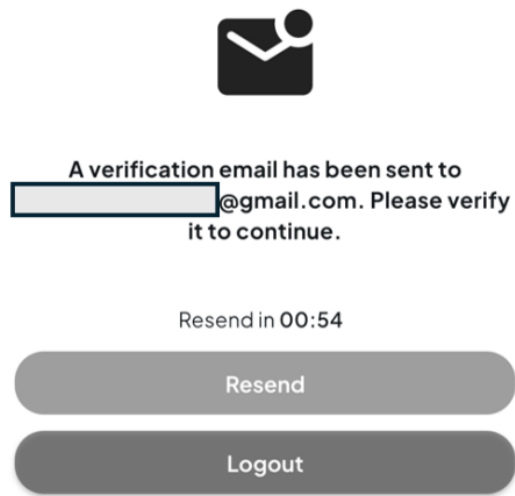
The image shows the "Create your account" form in the Dustlight app. At the top is the "Dustlight" logo. Below it is the heading "Create your account" and the subtext "Join us for exclusive content and features". The form consists of several input fields: "First Name" and "Last Name" (two separate fields), "Email" (with an envelope icon), "Password" (with three asterisks and a toggle icon), and "Confirm Password" (with three asterisks and a toggle icon). At the bottom, there is a checkbox followed by the text "By creating an account, you agree to the [Terms and conditions](#) and [Privacy Policy](#)".

11.3.3. Email Verification

After submitting, you will receive a confirmation email. Open the email and click on the confirmation link.

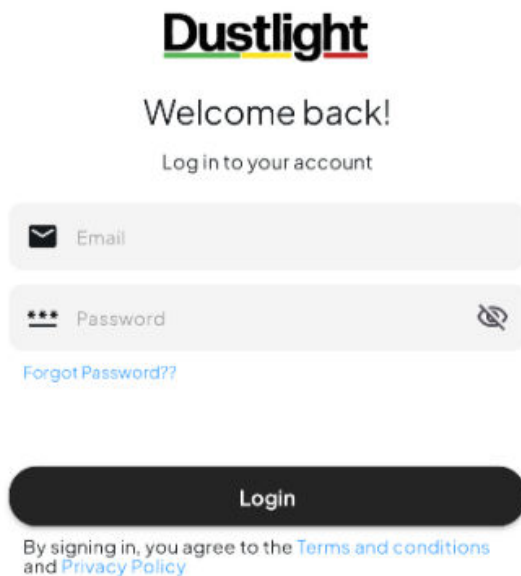
If you can't find the mail, please check the spam folder, control if you entered the correct mail or resend the mail.

Note: The confirmation link does not expire. The timer shown in the app only indicates when a new confirmation email can be requested.



11.3.4. Log In and Password

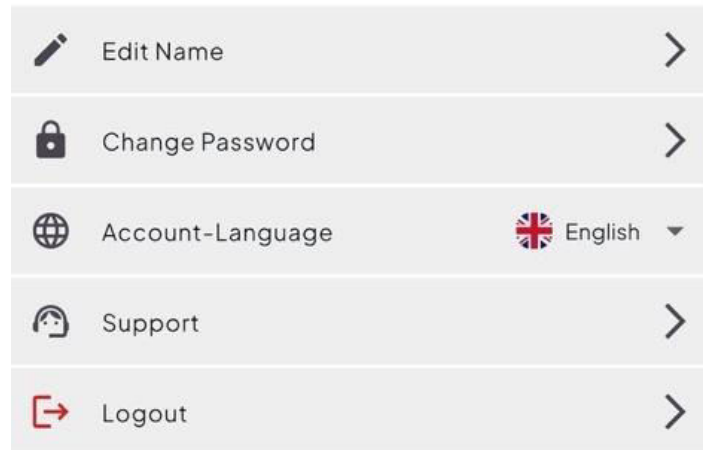
Once the email link has been confirmed, return to the app. Enter your email and password to sign in.



11.3.5. Account Settings

The account settings menu provides options such as changing your account language or password, signing off and deleting your account.

At the top of the settings page, you can see your current software plan. If you just created your account, you are automatically on the Basic Plan. Connect the Gilian Dustlight to your app, prior to adjusting any account settings.



11.4. Upgrade to Cloud-based software plans (Professional or Enterprise Plan)

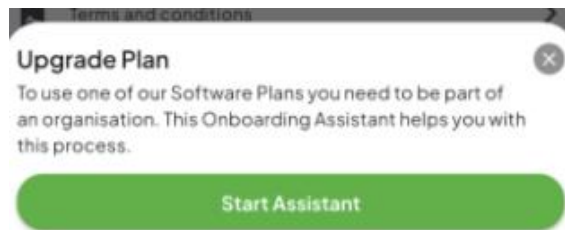
To upgrade your account, either contact your company administrator if Gilian Dustlight software is already being used, or contact your Gilian Dustlight sales representative, if you are new to the software. You will either be invited to your company organization, or the sales representative will provide you with software tokens to create a new organization. The following detail describes the process for both options.

11.4.1. Upgrade Plan or Join Organization

Select the “Upgrade Plan/Join Organization Button in the Settings Menu of your Dustlight mobile or web app.

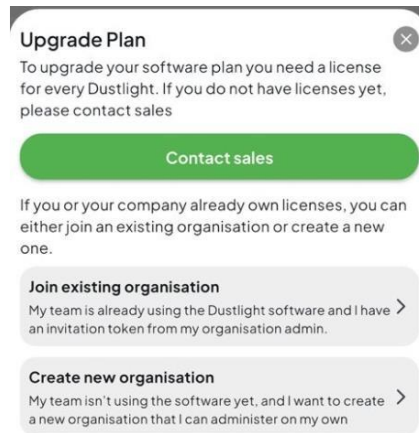


For additional support, select “Start Assistant”, and help will be provided.



11.4.2. Purchasing Subscription Tokens

If you do not have tokens yet, contact the local distributor who sold you the instrument. Selecting the Contact Sales button will forward you to the Sensidyne website, where you will be able to locate your nearest distributor.



Upgrade Plan ✕

To upgrade your software plan you need a license for every Dustlight. If you do not have licenses yet, please contact sales

[Contact sales](#)

If you or your company already own licenses, you can either join an existing organisation or create a new one.

Join existing organisation ➤
My team is already using the Dustlight software and I have an invitation token from my organisation admin.

Create new organisation ➤
My team isn't using the software yet, and I want to create a new organisation that I can administer on my own

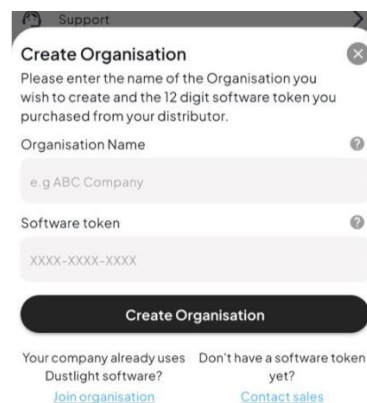
If the Dustlight software is already being used in your company and there is already an organization set up for your company, select the Join existing organization button. You will need an invitation code from your organization admin to join.

If you already have a software token available and no one in your company has bought and activated the software yet, you will need to create a new organization. After the organization is set up, you can enter your Subscription Token(s), and invite your team members, as the first administrator.

11.4.3. Creating a New Organization

After selecting the Create new organization button, please define the name of your organization. In most cases it makes sense to use your company name. In larger companies with multiple sites or branches it often makes sense to reflect that in the organization's name.

In the other field, please enter the license token you received from your distributor to activate your software.



Create Organisation ✕

Please enter the name of the Organisation you wish to create and the 12 digit software token you purchased from your distributor.

Organisation Name ?
e.g ABC Company

Software token ?
XXXX-XXXX-XXXX

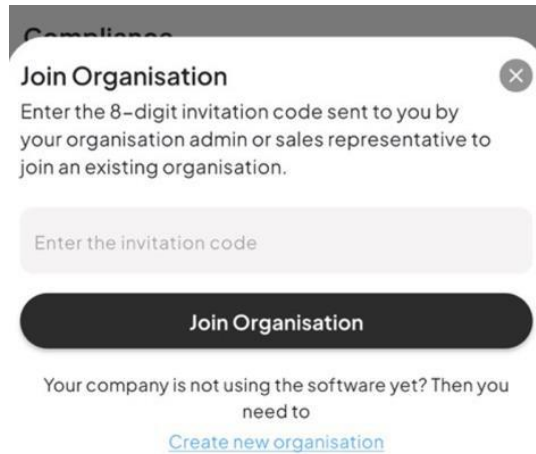
[Create Organisation](#)

Your company already uses Dustlight software? [Join organisation](#) Don't have a software token yet? [Contact sales](#)

11.4.4. Join Existing Organization

Prior to selecting the Join Existing organization button, you will have to be invited by the organization’s administrator. You will have received an invitation email containing an individualized 8-digit invitation code. Please enter the code in this field to join the organization.

After joining, your role is “User”. With this role you can use all functions of the app except for license and user management. Please ask your administrator to change your role to “Admin”, if you need to access these functions.



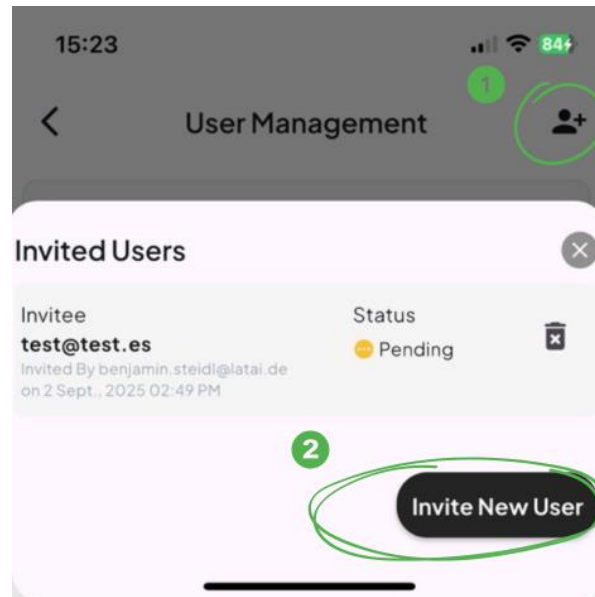
You are now ready to use the Dustlight software with all features available in your plan.

11.4.5. Inviting Users

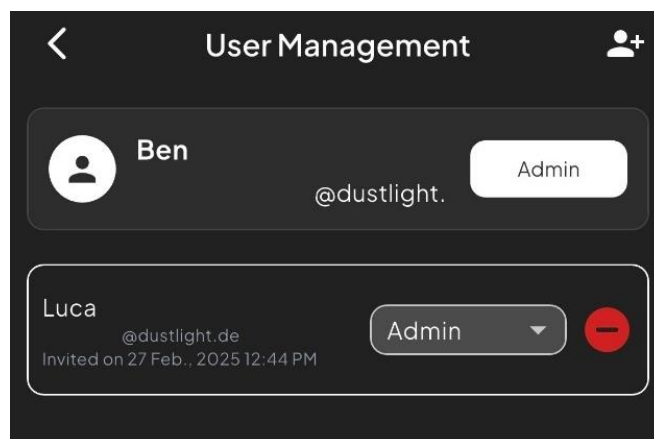
To invite users to the organization, navigate to App-Settings -> User Management and click on the icon in the top right corner (1).

In the screen that is now opening, you can view all previous invitations, that are still pending. Pending invitations can be canceled by clicking the trash can icon.

To add new users, tap the Button “Invite New User” (2) and enter the email address of the person to be invited.



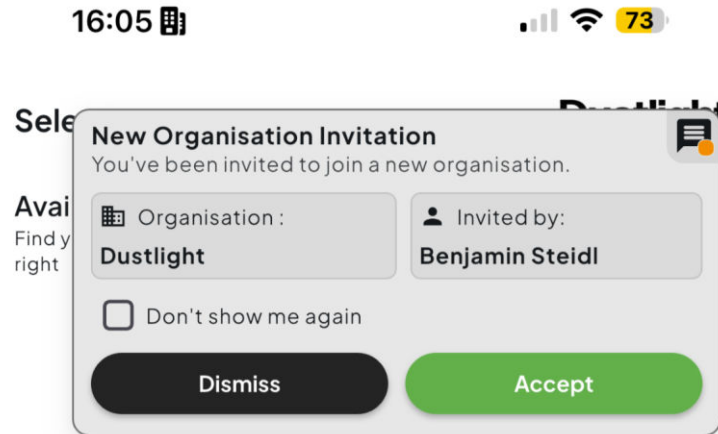
The user receives the invitation automatically via the app, allowing them to join, but will also get a notification via mail.



In the user management section, the admin will later be able to see a list of all users in their organization. After a user joins, they always have the “User” role, in the dropdown you can assign the “Admin” role.

11.4.6. Joining the organization as team member and user

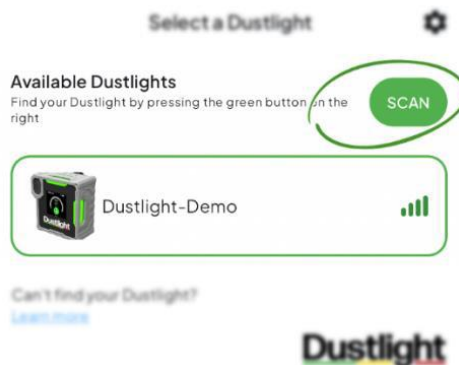
Once you have been invited to an organization, you log in to the Dustlight app using your personal user account. After login, a pop-up notification appears informing you about the invitation. By accepting the invitation, you join the organization and gain access to the features included in the organization's software plan.



You join an organization as a regular user by default. If you should also act as an administrator, your role can be changed by an existing admin in the User Management section of the software.

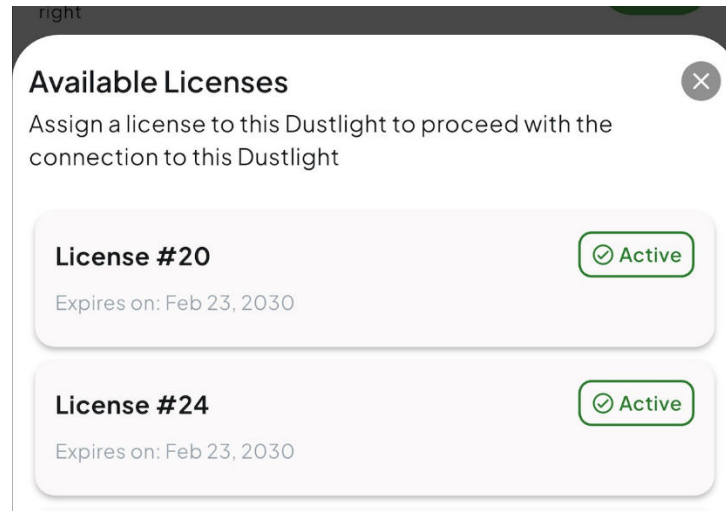
11.5. Connecting Your Gilian Dustlight

To connect the Gilian Dustlight with the app, tap the green button in the app to start the search. By default, the Gilian Dustlight is ready for connection for five minutes after switching it on or pressing the button.



As soon as your Gilian Dustlight is displayed in the list, select it. The device will then flash blue and show the connection request on the display. Please press the power button on the Gilian Dustlight to confirm the connection.

After connecting to a Dustlight device for the first time, a license must be selected and assigned. This step can be performed by any user within the organization and does not require a specific role.



Once a license is assigned, the Dustlight device becomes linked to that organization. This ensures that measurement data is protected and cannot be accessed by unauthorized parties. For data protection and theft prevention reasons, a Dustlight device must be explicitly removed from an organization before it can be connected to and used with another organization.

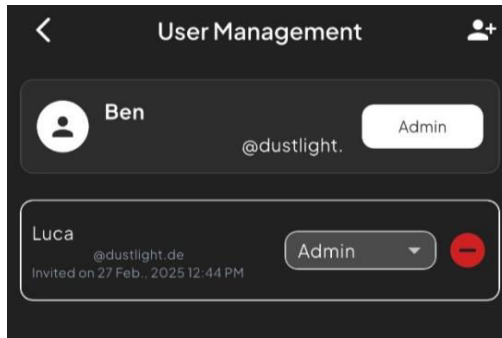
The connection is now established, and you can use the app with your instrument. On the top of the screen, you see a progress bar, while the Gilian Dustlight synchronizes all measurement data with your mobile device and the cloud.

If your device is not in the list of devices found in the app, make sure that the respective wireless connectivity is enabled on your mobile device and that the wireless connectivity of Gilian Dustlight is on (display is on).

11.6. User Management

In User Management, the administrator can see a list of all users in your organization. These users have access to all functions and Gilian Dustlight devices. You can remove the user by clicking the red icon.

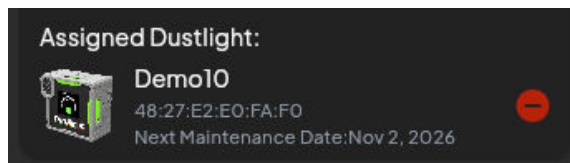
After a user is added, they always have the “User” role, in the dropdown, however, the main administrator can assign the “Admin” role to an existing user.



By clicking the icon in the top-right corner, you can view all previous invitations. Pending invitations can be canceled by clicking the trash can icon.

11.6.1. Removing Dustlights from an organization

A Dustlight device can only be actively used within the organization to which it is assigned. Before another organization can use the device, it must first be removed from the previous organization. Once removed, the previously assigned license becomes available again and can be assigned to another Dustlight device. The device can also be reconnected to the same organization later, provided that an available license exists. To remove the Dustlight, navigate to App Settings → License Management and select the Dustlight device that should be removed.



Click the red icon to remove the device from the organization and confirm the removal in the pop-up window.

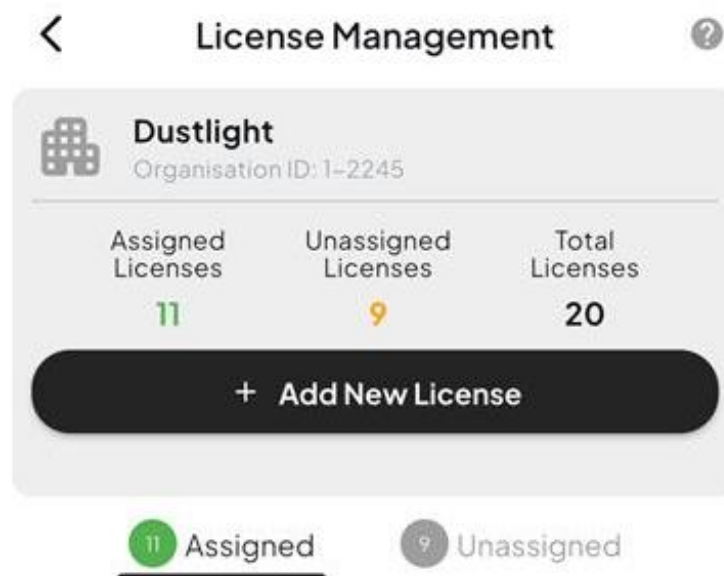
NOTE - Removing a device from an organization does not delete the measurement data stored on the Gilian Dustlight itself. If the customer wants to completely delete all data on the device, a factory reset must be performed in the device settings. Removing a Gilian Dustlight device also does not automatically delete historical measurement data stored within the organization’s account. If required, the measurement series can be deleted manually in the “Measurements” section of the app.

11.7. License Management (Admin Role Required)

If you have received multiple license tokens, you need to add them to the organization now. To add licenses, go to App-Settings -> License Management.

In this section you can see all licenses of the organization. Total licenses are all licenses that have been added to this organization, assigned licenses are the licenses that are already being used by a Gilian Dustlight and unassigned licenses tell you, how many more Dustlights you can connect with your account based on your current total licenses.

In the screenshot below, your organization owns 20 Licenses, 11 of them are already being used by Dustlights, but you have 9 more free and unassigned licenses that you could use to connect more Dustlights.

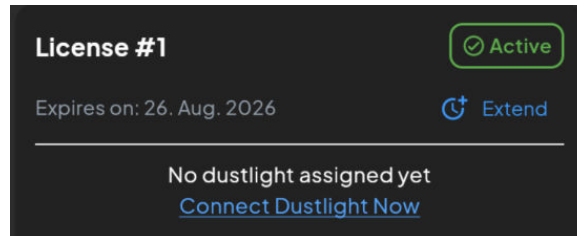


To add new licenses to an organization, click the +Add New License button and enter the token.

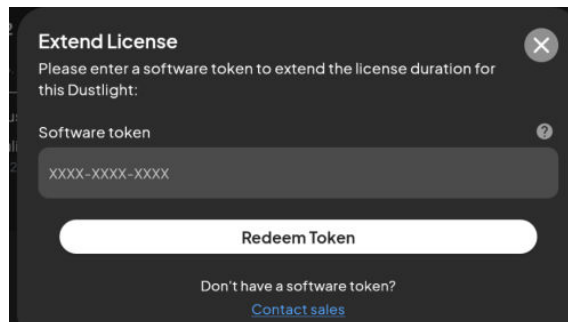
A new unassigned license will be added to your organization. The expiration date will be one, three or five years (depending on the license runtime that you bought) from the date the token is redeemed.

11.8. Extending Licenses

To extend a license, at least one active license must already exist. The license does not need to be close to expiration in order to be extended. When extended, the new license period is simply added to the current expiration date.



The Extend License button is displayed next to both assigned and unassigned licenses.



For a single software license token, the redeemed token is applied directly to extend the selected license. For a multi-license token the user can decide which licenses to extend and which to add as new licenses.

NOTE - Licenses can only be extended by redeeming a token via the Extend option next to an existing license. If a token is redeemed to add new licenses, a new license will be created instead. This action cannot be undone. Always ensure whether the intended action is to extend or to add a license.

SECTION Twelve: Operating Gilian Dustlight

12. Operation and Usage Warnings

The Gilian Dustlight is used to measure the exposure of workers to harmful particles and can therefore help to detect potential health risks by continuously monitoring air quality and subsequently mitigating exposures by taking appropriate protective measures.

In addition to dust-generating work in enclosed spaces, such as during construction, renovation or refurbishment projects, there are many other conceivable application environments for the Gilian Dustlight. Applications can include production facilities, factories, and other industrial environments where dust and particles are generated during many processes. Warehouses and storage areas can also be sources of dust, especially if dry materials are stored or handled there. A particulate matter monitor can help to monitor air quality in such environments and provide early warning of potential problems. This section contains information about the safe use of the Gilian Dustlight.

12.1. Warning of Residual Risks

Although these operating instructions provide detailed instructions for the safe use of the Gilian Dustlight fine dust monitor, there may be residual risks that are not explicitly mentioned in these instructions. These residual risks can occur unpredictably during operation and represent potential hazards. Always remain alert and pay attention to your surroundings.

The Gilian Dustlight is intended to provide you with a general overview of the concentration of particulate matter in the environment by means of indicative measurements. It has not been developed for use as a direct replacement for gravimetric analysis with speciation of target substances. In the event of regulatory requirements or legal obligations to carry out fine dust measurements, we recommend the use of Gilian Air Sample Pumps, Cyclones and sample media.

Annual calibration and maintenance must be carried out in accordance with the manufacturer's instructions to guarantee long-term accuracy.

12.2. Charging the Gilian Dustlight

Only use the magnetic charging cable supplied to charge the device. The cable is specially designed for Gilian Dustlight devices and ensures safe and efficient charging.

Connect the charging cable to a USB power supply unit (**Not Included in Starter Kits**). You can either use a USB power adapter that you already own or purchase one as an accessory through your local distribution partner. Make sure that the USB power supply meets the recommended specifications (5V, at least 1A charging power) to ensure optimum charging speed.

Connect the magnetic end of the charging cable to the connection on the Gilian Dustlight. The charging process starts automatically and the display on the screen shows the progress. The charging process stops automatically when the device is fully charged, or the temperature rises during the charging process.

Do not charge the Gilian Dustlight in metalworking environments. Charging must be performed away from airborne metal particles.



Safety instructions

Only use the supplied magnetic charging cable and a suitable USB power adapter. The use of unauthorized accessories can cause damage to the device and invalidate the warranty.

Place the Dustlight Fine Dust Monitor on a stable, non-flammable surface away from liquids for charging. Make sure that the charging port on the device is clean and dry to ensure an optimal connection.

Monitor the device during the charging process and disconnect it from the mains adapter when charging is complete. This prevents overcharging and optimizes the service life of the battery.

Avoid exposing the device to excessive heat during the charging process. Do not expose it to direct sunlight or other sources of heat.

12.3. Switch on Gilian Dustlight

To switch on the Gilian Dustlight, press and hold the button on the right-hand side of the switched-off appliance for at least 2 seconds.

12.4. Switch off Gilian Dustlight

To switch off the Gilian Dustlight, press and hold the button on the right-hand side of the device for at least 2 seconds during operation. The device switches off automatically when a critical charge level is reached to protect the internal battery.

12.5. Operating Gilian Dustlight

Once switched on, the Gilian Dustlight can be attached to clothing using the clip on the back. Care should be taken here to always place the device as close as possible to the breathing zone of the worker (i.e. on or near a breast pocket or collar). The separately available Klick Fast® accessories, such as the armband or chest strap, are also available options, allowing the Gilian Dustlight to be securely attached to the body. To do this, the clip is replaced with the Klick Fast® adapter, as described in section 9.

During operation, the Gilian Dustlight signals to the person wearing it if the set dust limit values are exceeded via a visual and optionally activated acoustic signal. In addition, the current measured value is shown on the display in large plain text. Depending on the energy setting, the display is deactivated after a certain time, but the device continues to measure and provide warnings. The display is reactivated by briefly pressing the side button.

Note - Even though the Gilian Dustlight is designed for dusty environments, please take care not to expose the device to excessive amounts of dust and flying parts, as these can have a negative impact on the service life of the instrument. If the charge level is low, the device should be charged according to the instructions in section 3.1.2 Charging the .

SECTION THIRTEEN: Maintaining Gilian Dustlight

13. Maintenance

This section contains information for the safe maintenance of the Gilian Dustlight. It includes all technical and organizational measures during the life cycle of the instrument to ensure the safe, economical and functional condition of the device and to prevent environmental damage.

Maintenance includes:

- Annual Maintenance and Calibration
- Repair
- Troubleshooting



WARNING – Maintenance by Unauthorized Persons

Maintenance must only be performed by Sensidyne or an Authorized Service Center. Unauthorized repairs or modifications may void safety certifications and create hazards.

13.1. Loss of Warranty Claims

The manufacturer's warranty for the Gilian Dustlight instrument guarantees that the product will function under normal operating conditions. To maintain the validity of this warranty, please observe the following conditions:

13.1.1. Unauthorized opening of the housing

Any attempt to open the housing of the Gilian Dustlight will immediately invalidate the warranty. The housing may only be opened by authorized service personnel.

13.1.2. Changes to the device

Any unauthorized modifications, manipulations or changes to the device will result in the immediate loss of warranty claims. This also includes attempts to modify firmware, software, or other system components without prior written permission.

13.1.3. Independent replacement of components

Any unauthorized replacement of components not expressly approved by the manufacturer will invalidate all warranty claims. All repairs or replacements must be carried out by an authorized service center. Please note that the loss of warranty claims due to the above conditions is not all inclusive and further conditions may apply in accordance with the manufacturer's warranty provisions.

13.2. Maintenance and Calibration

The Gilian Dustlight does not require any end user field calibration, it should only be calibrated regularly as described in this section. End users should clean the intake grilles as warranted to maintain the best operational performance. The exterior of the Gilian Dustlight may be wiped off with a damp cloth. Do not submerge the instrument or place under running water, as this will damage the device and negate the warranty.

The Gilian Dustlight has an intelligent maintenance and calibration display. Depending on the operating time and the prevailing dust concentration in the working environment, Gilian Dustlight calculates the minimum maintenance intervals itself. However, to guarantee safe operation and accurate measurement at all times, maintenance and calibration must be carried out by an authorized service center every 12 months at the latest, or sooner depending on the ambient conditions and operating time. The current sensor status can be checked via the app. When 80% of the maintenance threshold is reached at the latest, a notification about the imminent maintenance is shown on the integrated display and in the app. Once the maintenance time has been reached, this warning remains active every time the device or app is started.

To carry out maintenance, please visit our website at www.Sensidyne/dust.com, where you can find your local authorized service center.

13.3. Repair

Any repair work, including the replacement of components or the repair of malfunctions, may only be carried out by an authorized service center.

The Gilian Dustlight contains complex structures and safety-relevant components. Unauthorized repairs by users or unauthorized third parties can lead to serious safety risks.

In the event of malfunctions or the need for repairs, please contact the Sensidyne or your local authorized service center. Please be prepared to provide the serial number for appropriate support and instructions:

U.S.A.

Sensidyne, LP
1000 112th Circle N, Suite 100
St. Petersburg, Florida 33716

800-451-9444
+1 727-530-3602
+1 727-539-0550 [Main fax]
+1 727-538-0671 [Service fax]
info@Sensidyne.com
www.Sensidyne.com

13.4. Troubleshooting

If you experience problems with your device, you can carry out the following troubleshooting steps to identify possible causes and find solutions:

13.4.1. Problem: The device cannot be switched on

- Check the charge status of the battery and connect the Dustlight to the mains using the enclosed charging cable and a USB power supply unit and try again after a while.

13.4.2. Problem: The device cannot be charged

- Check the charging cable for external damage and replace it if necessary.
- Check the power supply unit used for damage and sufficient power (at least 1A). Replace it if necessary.
- Check the function of the socket used and use a different one if necessary.

13.4.3. Problem: The device does not measure correctly

- Check the air inlet and air outlet of the appliance for dirt and clean or replace them if necessary.
- Check whether there are maintenance and calibration warnings in the app or on the device screen.
- Check whether there are any error messages on the device display or in the app and rectify them as described below.

13.4.4. Problem: The device shows an error message on the display

Please proceed as follows depending on the error message:

Error code	Error	Remedy
E01	Critical error	Please contact the manufacturer or your local service partner.
E02	Sensor error	Please restart the Gilian Dustlight. If the error persists, contact the manufacturer or your local service partner.
E03	No sensor found	Please restart the Gilian Dustlight. If the error persists, contact the manufacturer or your local service partner.
E04	Fan error	Please check the air inlet and air outlet of the Gilian Dustlight for damage and dirt and clean them if necessary. Restart the device. If the fault persists, contact the manufacturer or your local service partner.
E05	Fan speed error	Please check the air inlet and air outlet of the Gilian Dustlight for damage and dirt and clean them if necessary. Restart the device. If the fault persists, contact the manufacturer or your local service partner.
E06	Time error	The Gilian Dustlight has lost the time due to insufficient battery charge. Please connect the device to the app to update the time.
E07	Memory full	The internal memory of the Gilian Dustlight is full. Please connect the device to the app to synchronize the data on your smartphone and prevent data loss.
E08	Maintenance notice	The sensor unit has reached 80% of its service life. Please find your local authorized service partner to perform maintenance.
E09	Maintenance interval reached	The sensor unit requires maintenance. Please contact your authorized local service partner.

SECTION FOURTEEN: Cleaning

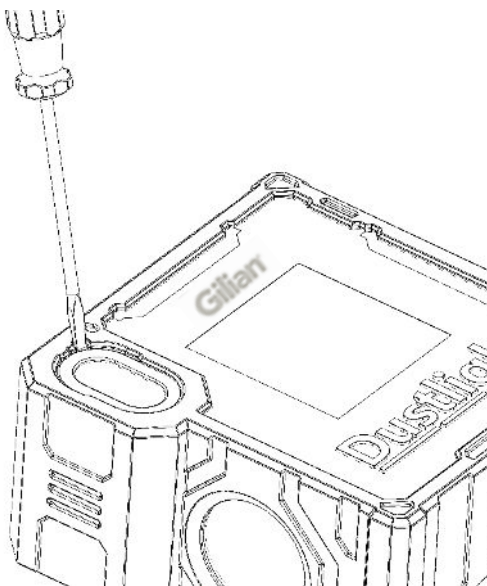
14. Cleaning

To ensure the proper functioning and safety of your Dustlight, use dry and soft materials, such as a microfiber cloth or brush, to clean the outside of the housing. Carefully remove dust and dirt and take particular care to avoid getting dust into the air openings of the device, especially at the air inlet and outlet grilles. Regularly check the charger, charging cable and connections for any dirt and remove it if necessary.

For stubborn dirt, you can also wipe the Dustlight with a damp cloth, taking particular care to ensure that no moisture can get into the openings of the device. Do not use cleaning agents, solvents or aggressive chemicals, as these can damage the housing and surfaces.

Note - Never use compressed air or a vacuum to clean the Dustlight. This can destroy the air duct and sensors of the appliance.

As the air inlet at the front of the appliance is naturally subject to the most soiling, the stainless-steel grille can be removed for easier cleaning. To do this, use a pointed object such as a screwdriver to the point provided on the top right-hand side of the metal grille and lift it out. Now you can wash it under running water with a brush and mild detergent. If there are any color residues on the grille, you can also remove them with cleaning benzene or acetone. Allow the grille to dry thoroughly after cleaning.



If the grille is damaged or can no longer be cleaned, you can simply replace it. The replacement filters are available in our shop or by emailing your distributor. When removed, the pre-chamber of the air duct can also be cleaned simply by shaking it out. More stubborn dirt can be loosened with a long, pointed object such as a small screwdriver, a cotton bud or a small round brush and remove by shaking it out again.

To insert the grille, push it into the rubber holder from above and press on it so that the nose at the top of the inlet holds the grille in place. If this is not possible by pressing alone, lift the nose with your fingernail or a small object so that it lies over the grille and holds it in position.

Note - Please follow these cleaning instructions carefully to prolong the life of your appliance and ensure safe use. Any improper cleaning may result in damage that is not covered by the warranty.

SECTION FIFTEEN: Storage

15. Storage

To ensure the optimum functionality and longevity of your device, please observe the following guidelines for the correct storage of the Gilian Dustlight.

The Gilian Dustlight is stored in the following cases:

- After decommissioning for a longer period of non-use
- After decommissioning for a relocation
- After decommissioning for calibration or repair

Store the Dustlight in a dry place and do not expose it to extreme temperatures, be it cold or heat, to avoid possible damage. Also avoid direct sunlight, as this can shorten the performance and service life of the components, especially the built-in batteries and sensors.

Store the device in an environment that is as dust-free as possible and protect it from dirt particles. This will help to ensure that the sensor and other components function properly in the long term.

If you have purchased the device with accessories, store them in a safe place together with the Gilian Dustlight to prevent loss or damage. This will ensure full functionality if required. If possible, keep the device in its original packaging. This offers optimum protection and also makes it easier to send it in for maintenance and repair work.

Do not store the appliance near electrical appliances that could generate strong electromagnetic fields.

Check the charge status of the batteries before storage. Never store the device with fully discharged batteries but charge them fully before storing them.

SECTION SIXTEEN: Waste Disposal

16. Waste Disposal

Please note that electrical and electronic appliances must not be disposed of with household waste. Old appliances can be handed in free of charge at designated collection points. There they will be professionally collected, disposed of or prepared for possible reuse. We appeal for your active participation in order to make a joint contribution to the environmentally friendly and sustainable disposal of electrical and electronic appliances.



The return of old appliances is required by law, as some of these appliances may contain harmful substances that can damage both the environment and human health.

In addition, the return enables the recycling of the raw materials contained, which benefits the environment. If the old electrical or electronic device contains personal data, you are responsible for deleting it yourself before returning it.

In accordance with the provisions of Directive 2008/98/EC on waste and its implementation in the legislation of the Member States of the European Union, waste prevention measures are generally prioritized over waste recycling measures. In the area of electrical and electronic equipment, the prolongation of the service life by repairing defective equipment and the sale of functional used equipment are particularly favored instead of disposing of them.

Revision	Description
A	Initial Release of Product. Firmware version 2.14.0
B	Added usage and references to the Magnetic Charging Port Cover. Added additional accessories. Added additional photos for user interface.

NOTES

NOTES

Globally Distributed by:

Sensidyne, LP

1000 112th Circle N, Suite 100

St. Petersburg, Florida 33716

U.S.A.

800-451-9444 • +1 727-530-3602 • [fax] +1 727-539-0550

www.Sensidyne.com • info@Sensidyne.com

Authorized EU Representative

Schauenburg Electronic Technologies GmbH

Weseler Str. 35 · 45478

Mülheim-Ruhr Germany

+49 (0) 208 9 99 10 • +49 (0) 208 5 41 10 [fax]

www.schauenburg.com • international@schauenburg.com

Gilian®

SENSIDYNE®
Industrial Health & Safety Instrumentation

1000 112th Circle N, Suite 100 • St. Petersburg, FL 33716 USA
(800) 451-9444 • +1 (727) 530-3602
www.Sensidyne.com • info@Sensidyne.com