

**TROLEXX**

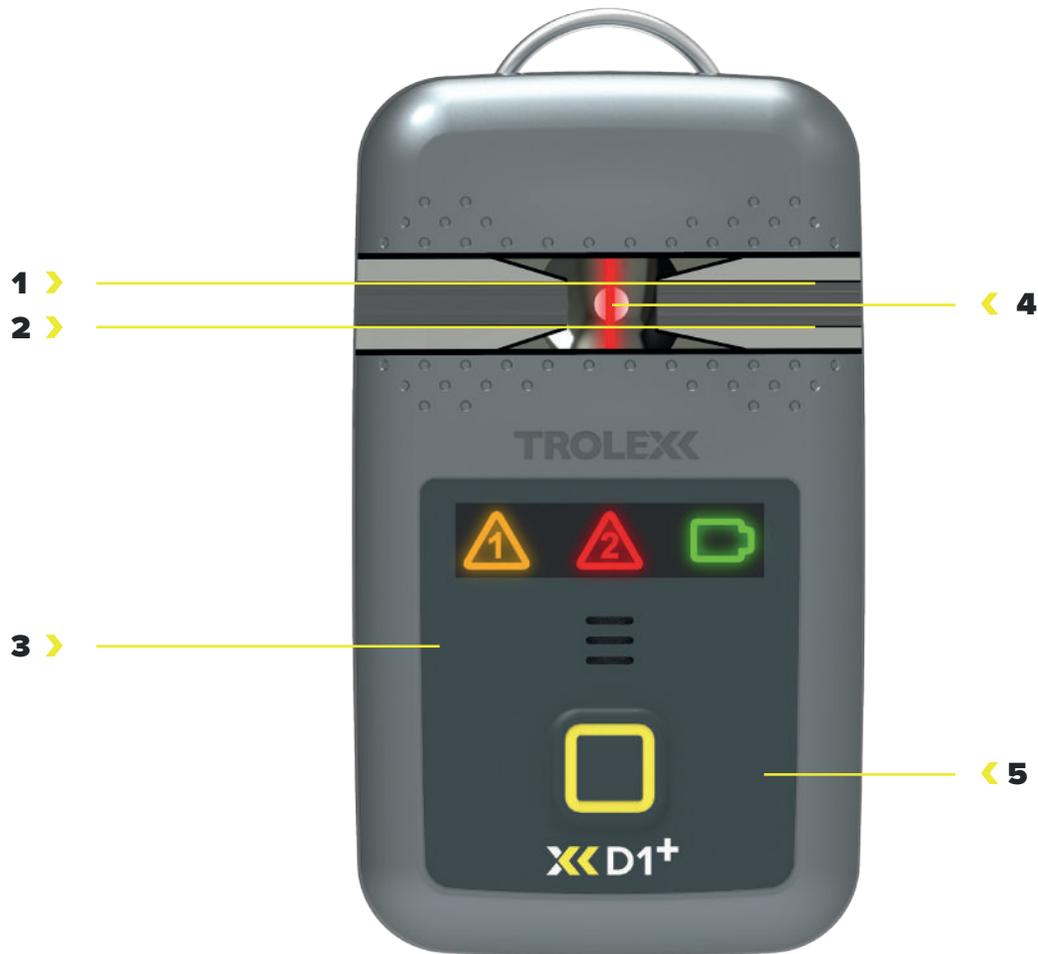
**ONE LIFE.  
PROTECT IT.**



**XKD1+**

**PERSONAL  
DUST  
MONITOR**

# PIONEERING TECHNOLOGY MADE SIMPLE.



- 1 >** Open-path particulate technology allows free flow of air through the unit and gives **XCD1+** its incredible accuracy and durability; whether it's detecting microscopic but dangerous particulates or in heavy dust-loaded environments.
- 2 >** No pump, no pre-filtering, no impactor. **XCD1+** detects the real content of particulates in the space, constantly monitoring for dangerous particle sizes in real time.
- 3 >** Advanced processing algorithm, detects, counts and sizes up to 100,000 particulates a minute, providing accurate real-time information to save lives.
- 4 >** Optically refined detection chamber allows **XCD1+** to monitor every particle that flows through the unit.
- 5 >** Bluetooth connectivity and RFID pairing, and data docking make downloading and visualising your particulate data easy.

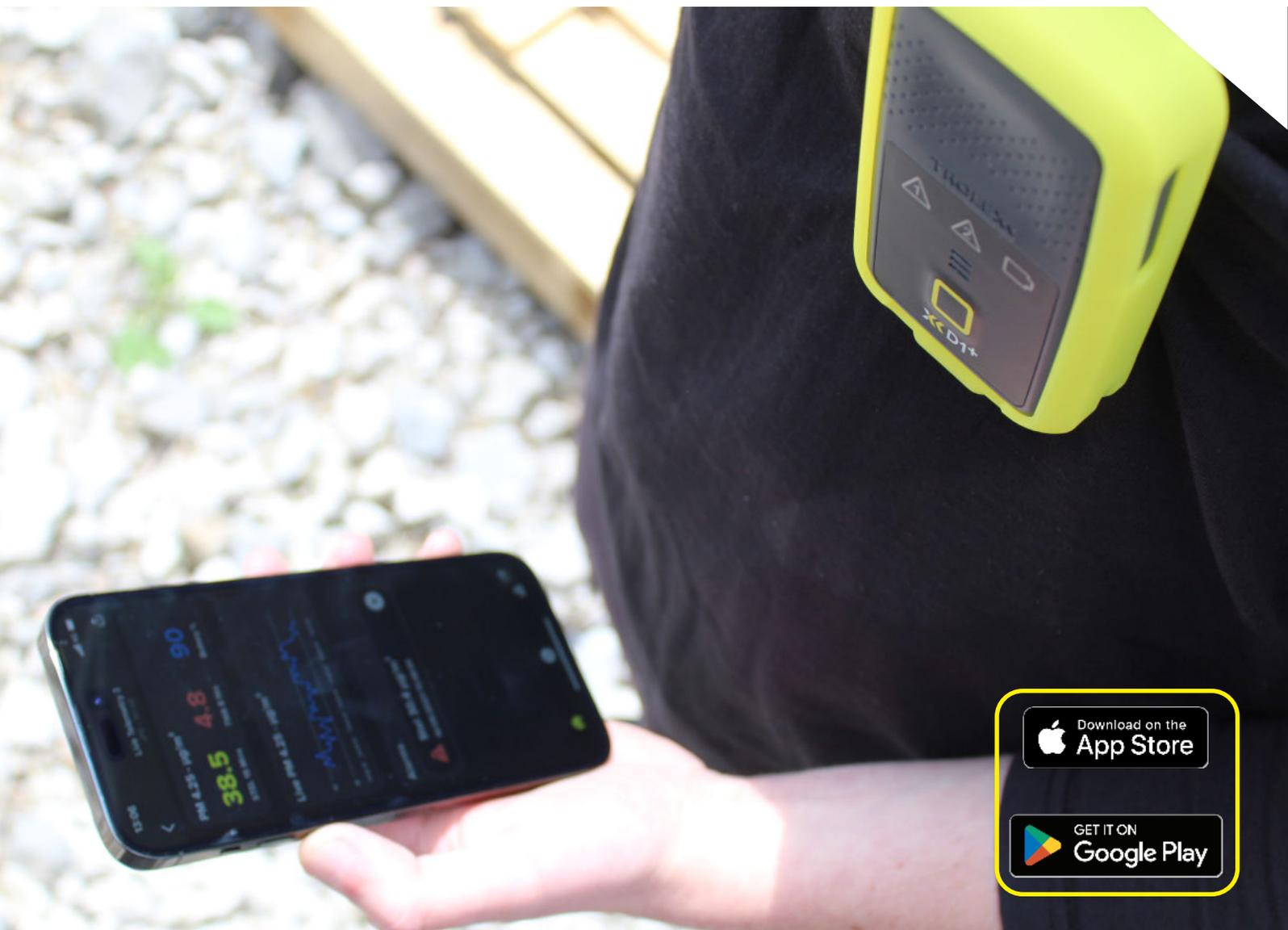
# BREATHEMOBILE APP.

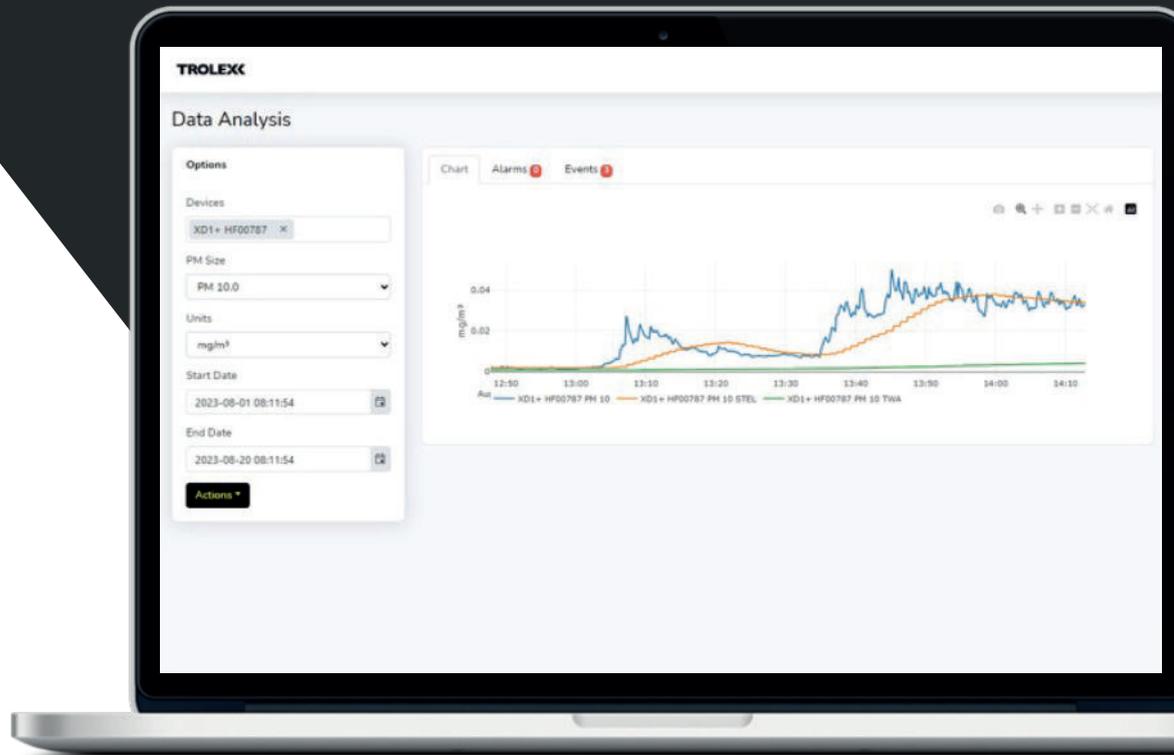
We develop products that help you make a difference and keep your workforce safe.

Want the data live on screen? Simply connect **XKD1+** using NFC technology by holding your **BreatheMOBILE** app close to your **XKD1+**.

View your live and historic data, change your threshold settings and see any alarms. "Real-time" really is in real time with **XKD1+**.

With personal real-time data delivered directly to your mobile phone, you can instantly identify the source of exposures and adjust control-measures immediately. You can provide the correct PPE to those who need it, as well as record and store who, when and where of your dust exposure scenario.





 [trolex.com/software](https://trolex.com/software)

## BREATHELITE SOFTWARE.

Like the **XXD1+**, **BreatheLITE** software is designed to make things simple.

**BreatheLITE** gives fast access to live and historical data. It allows you to easily configure your **XXD1+** devices, and controls the simple compliance check in around 2 minutes.

It's software the way it is meant to be. Fast, intuitive and straightforward.

Got more than one device? No problem. With the **XXD1+** data and charging dock, download the data to your PC or laptop while charging so your data is ready for you to view when it suits you.

# PRODUCT SPECIFICATION.

## TECHNICAL SPECIFICATION

PLEASE REFER TO PAGES 15 AND 16 IN USER MANUAL FOR THE FULL SPECIFICATION

<b>Sensing technology</b>	OPC light-scatter photometer
<b>Particulate measurement</b>	0.1 µm to 10 µm (PM1, PM2.5, PM4.25, PM10)
<b>Particle count accuracy</b>	±10%
<b>Operating temperature</b> Optimum performance Maximum performance	10 °C to 40 °C -10 °C to 50 °C
<b>Humidity</b> Optimum performance Maximum performance	20% - 80% RH, non-condensing 0% - 95% RH, non-condensing
<b>Housing material</b>	PC/ABS polymer housing
<b>Ingress protection</b>	Main enclosure: IPX4 Particle flow path: IP4X
<b>Weight</b>	170 g
<b>Data connections</b>	USB-C connector (charging and data transfer) Bluetooth LE 5.3
<b>Connectivity</b>	<b>BreatheLITE</b> PC application <b>BreatheMOBILE</b> application
<b>User options</b>	STEL and TWA alarm setpoints Latching alarms Particulate measurement
<b>Operating range</b>	Up to ~150 mg/m <sup>3</sup>
<b>Particulate density range</b>	0.8 g/ml to 8.0 g/ml (default 1.65 g/ml)
<b>Units of measurement</b>	µg/m <sup>3</sup> – Logged on device µg/m <sup>3</sup> or mg/m <sup>3</sup> – <b>BreatheLITE</b> application
<b>Sampling interval</b>	Custom 1 second intervals (default 10 seconds)
<b>Flow rate</b>	0.1 L/min
<b>User interface/alarms</b>	Visual icon illumination (STEL, TWA, battery indication) Audible (85 dB) Vibration alert
<b>Self-test</b>	Sensor hardware, circuitry and battery test on activation 'Push to test' during operation
<b>Response test</b>	Custom particle compliance test
<b>Battery capacity</b>	8.2 Wh lithium ion
<b>Battery run time</b>	16 hours (full health at ambient)
<b>Charging temperature limits</b>	0 °C to 45 °C
<b>Charging time</b>	0% to 90%: 2 hours 0% to 100%: 3 hours
<b>Max. charge current</b>	1.5 A
<b>Memory capacity</b>	1 GB (6 months data logging at 10 second intervals)
<b>Product fixing/body mounting</b>	Personal mounting clip, Klick Fast stud options
<b>Certification</b>	UKCA and CE compliant

# ORDER REFERENCE.

## **XKD1<sup>+</sup> Personal Dust Monitor**

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**With alligator clip TX8061.00.01**



Alligator clip.

## **XKD1<sup>+</sup> Personal Dust Monitor Team Pack**

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**5 x XKD1<sup>+</sup> devices with charging and data dock TX8061.00.10**

**XKD1<sup>+</sup> Team Pack** comes with a free charging and data dock.



**XKD1<sup>+</sup>** in charging dock.

## **XKD1<sup>+</sup> Protective Case**

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**XKD1<sup>+</sup> protective case P5650.4002**



Protective case.

# ORDER REFERENCE.

## XXD1+ Charging and Data Dock

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**Data and charging dock**      **P5650.4001**

Data and charging dock only.



Charging and data dock.

## Product Mounting Kits

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The **XXD1+** mounting kits allow for Klick Fast, location and removal of the device for a range of custom mounting applications.

**Body mount kit**      **P5644.4001**

Site clothing or belt mounts.

### Body mount kit contents



Klick Fast



Belt loop dock.



Sew-on dock.

**Wall / pole mount kit**      **P5644.4002**

Direct wall mounting, poles or structures.

### Wall/pole mount kit contents



Pole mount.



Wall mount.

# ORDER REFERENCE.

## Compliance Pack<sup>+</sup>

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### Compliance Pack<sup>+</sup> P5650.4000

Annual compliance kit includes:

- 4 x dust samples
- 1 x hood
- 1 x compliance base



Trolex Compliance Pack<sup>+</sup>

## Sample Replacement Pack

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### Sample replacement pack P5644.4004

Intended for the Team Pack and / or bulk users. Contains:

- 12 x replacement compliance samples.



x 12 Trolex compliance sample.

At Trolex, we save lives.

We believe that no person should risk their life to earn a living.

We aim to become the world's leading name in health and safety technology through pioneering products that provide real-world benefits to our customers whenever workers operate in hazardous environments.

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