

TROLEXK

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**ONE LIFE.
PROTECT IT.**



XKD1+

**PERSONAL
DUST
MONITOR**

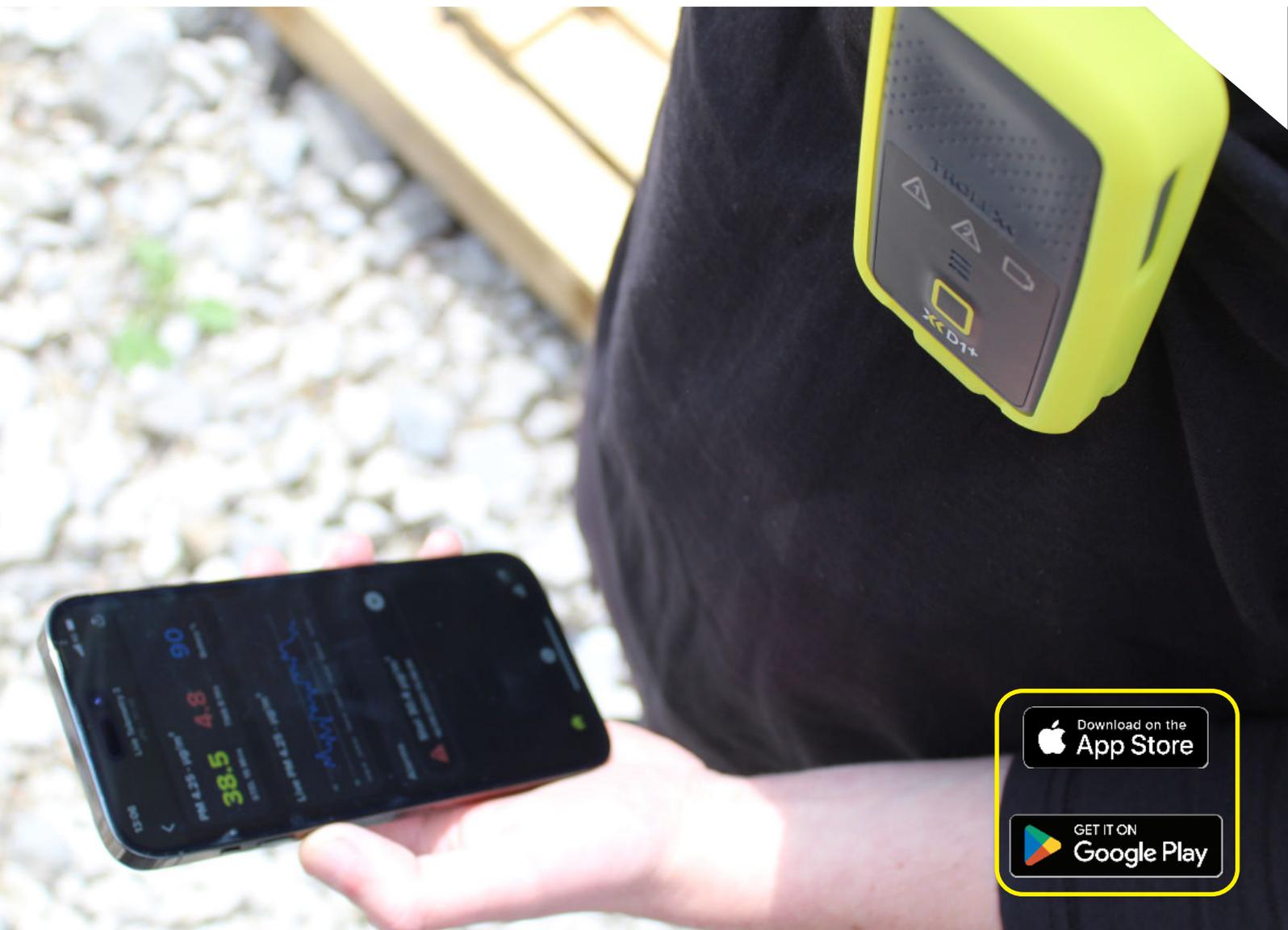
BREATHEMOBILE APP.

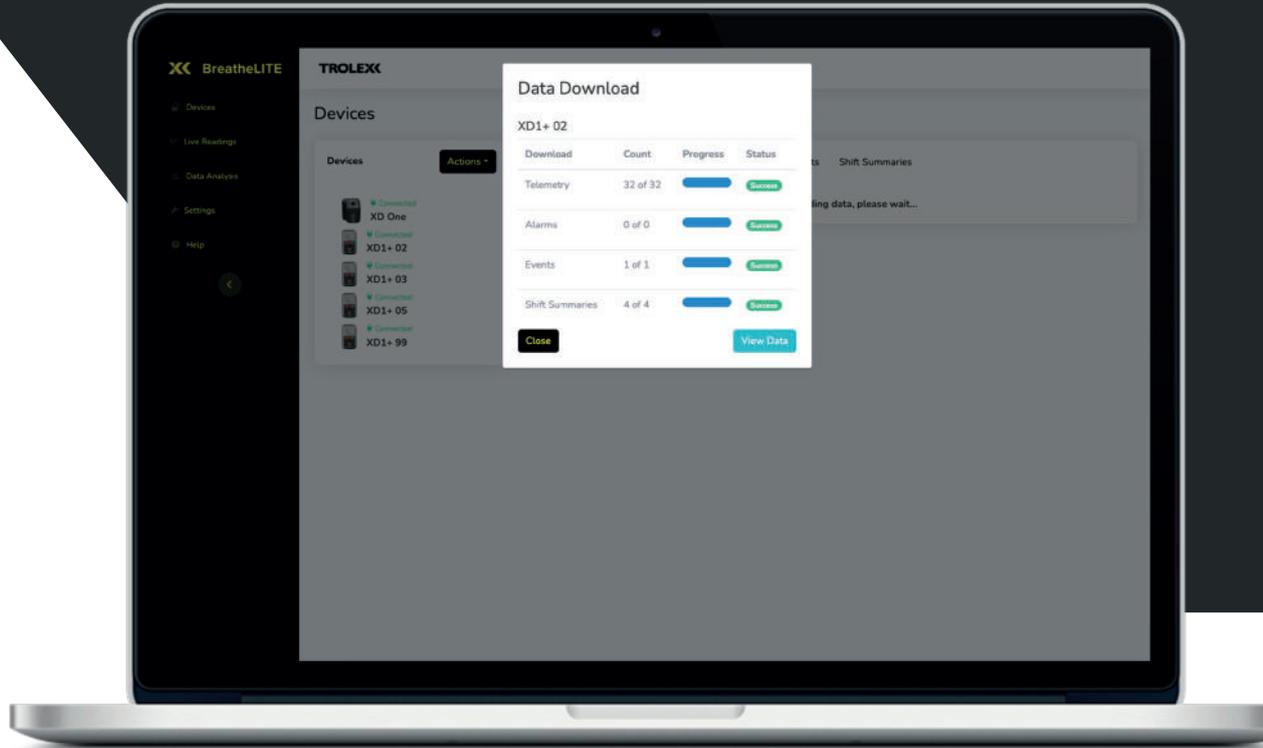
We develop products that help you make a difference and keep your workforce safe.

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/breathelite-download

BREATHELITE SOFTWARE.

Like the **XKD1+**, **BreatheLITE** software is designed to make things simple.

BreatheLITE gives fast access to live and historical data. It allows you to easily configure your **XKD1+** 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 **XKD1+** 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.



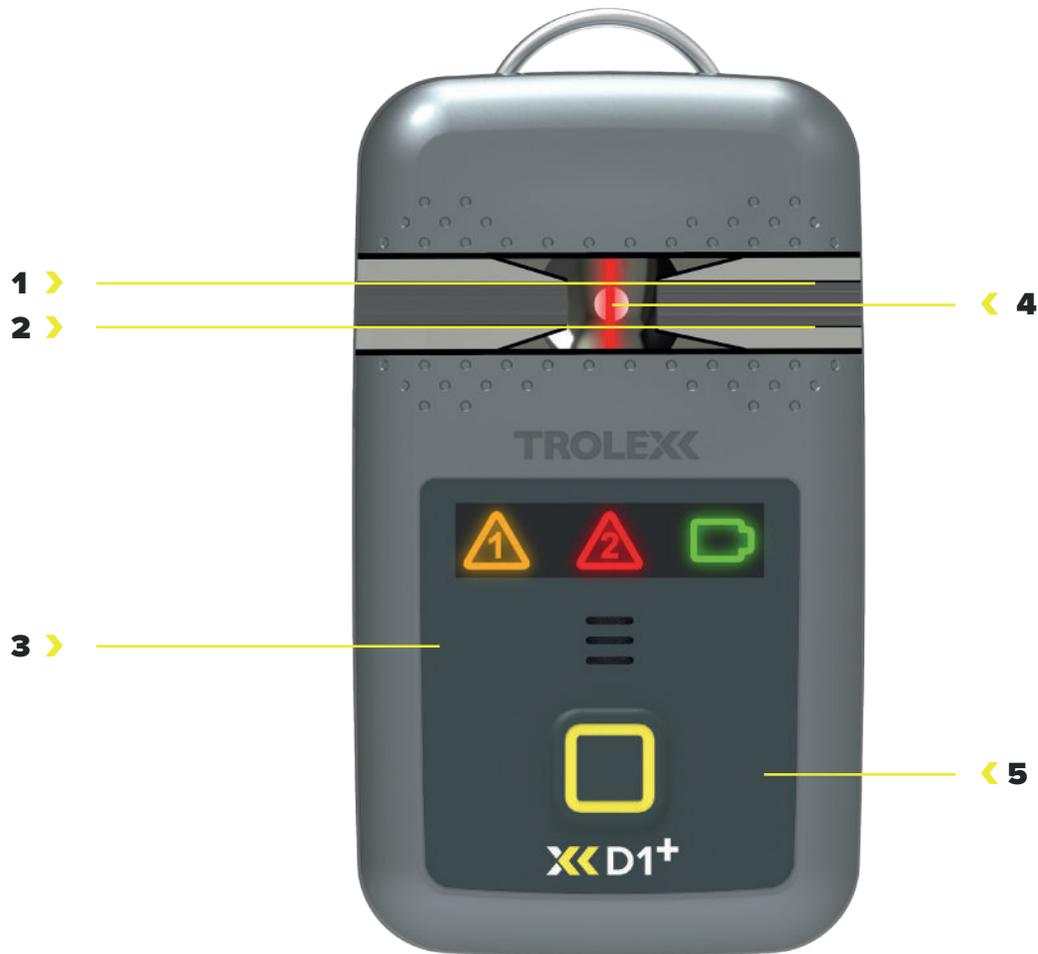
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PIONEERING TECHNOLOGY MADE SIMPLE.



- 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.



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PRODUCT SPECIFICATION.

TECHNICAL SPECIFICATION

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



XKD1⁺ PERSONAL DUST MONITOR.

A real-time and continuous personal dust monitor. XKD1⁺ is a lightweight and self-contained unit giving early warning based on your short term or workplace exposure limits.

COMPLIANCE BASE*

Combined with the supplied transparent dispersion hood, the compliance base allows simple and rapid testing of the XKD1⁺ against a reference sample to ensure that the unit is performing to the highest standard.

*Included with Compliance Pack⁺

COMPLIANCE PACK⁺

A dedicated sample pack for rapid compliance testing of the XKD1⁺. Simply connect the unit to **BreatheLITE** software and follow the on-screen instructions for a full compliance check in around 2 minutes. Compliance testing, to check alignment with factory accuracy, should be carried out when your XKD1⁺ warns you via the on-device message (3-month expected frequency based on typical device usage).

BODY MOUNT KIT

The body mount kit comes with a Klick Fast stud, a belt loop and a sew-in dock attachment, giving you a variety of options for a secure and non-intrusive solution for personal mounting.

DATA DOCK

With a busy workforce and a large fleet, it can be time-consuming to manage multiple sets of data and to ensure that devices are fully charged, ready for next use. The XKD1⁺ data dock accommodates 5 XKD1⁺ units, with 'plug and play' features that automatically recognise when an XKD1⁺ is present, and downloads the latest data accordingly. Units are also charged, ready for the next use.

ORDER REFERENCE.

XKD1+ Personal Dust Monitor

With alligator clip TX8061.00.01



Alligator clip.

XKD1+ Personal Dust Monitor Team Pack

5 x XKD1+ devices with charging and data dock TX8061.00.10

XKD1+ Team Pack comes with a free charging and data dock.



XKD1+ in charging dock.

XKD1+ Protective Case

XKD1+ protective case P5650.4002



Protective case.



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ORDER REFERENCE.

XXD1⁺ Charging and Data Dock

Data and charging dock **P5650.4001**

Data and charging dock only.



Charging and data dock.

Product Mounting Kits

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.



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ORDER REFERENCE.

Compliance Pack⁺

Compliance Pack⁺ P5650.4000

Annual compliance kit includes:

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



Trolex Compliance Pack⁺

Sample Replacement Pack

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.



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