

Datasheet





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ONE LIFE. PROTECT IT.



PERSONAL DUST MONITOR

"We see real advances in real-time technology as the inevitable future for the industry and we urge the HSE to look into this in more detail."

UK All-Party Parliamentary Group for Respiratory Health.

PERSONAL DUST MONITORING FOR REAL LIFE.

We believe in keeping it simple.

XXD1⁺ is designed to be used every day, in any situation or job role, whatever your level of expertise. It monitors the levels of dangerous dust and lets you know when it's time to take action.

XXD1⁺ is small and lightweight enough to give you the freedom to do your job whilst making zero compromise on accuracy and reliability.

A truly wearable, easy to use, cost effective, early warning device and real-time dust monitor that can change the way you manage safety.







Dust monitoring doesn't have to be complicated or timeconsuming.

We all know that 8-hour averaging of dust exposure is of little use in understanding where, when and exactly how much your workers have been exposed to dangerous particulates.

With **XCD1**⁺, monitoring in real time is easy. Just set your preferences via **BreatheLITE** or **BreatheMOBILE** and away you go. View your data in real time or dock your device at the end of each day. Job done.



SAVE LIVES.

Sometimes you just need people to get out of danger.

Everyone knows what to do when a fire alarm goes off. And now, with **XCD1**⁺, instant alarms, you can provide the same basic protection; unequivocal real-time alerts to anyone exposed to harmful levels of dust, the moment they are in danger.



END THE GUESSWORK.

No complicated set up, usage or data analysis.

Just simple, straightforward, highly accurate dust monitoring with a single-button unit. **XCD1**⁺ is the quickest and easiest way to show you made the right decisions in your protection strategy.

Use real-time data to prove your elimination or reduction processes work – and that your people are protected.



TAKE RESPONSIBILITY.

No two days are the same in a dusty working environment.

Which is why monthly, weekly or even daily sampling isn't good enough.

You need continuous real-time monitoring with instant alarms and comprehensive data sets to properly protect your workers.

PERSONAL DUST MONITORING FOR EVERY WORKER AT RISK.

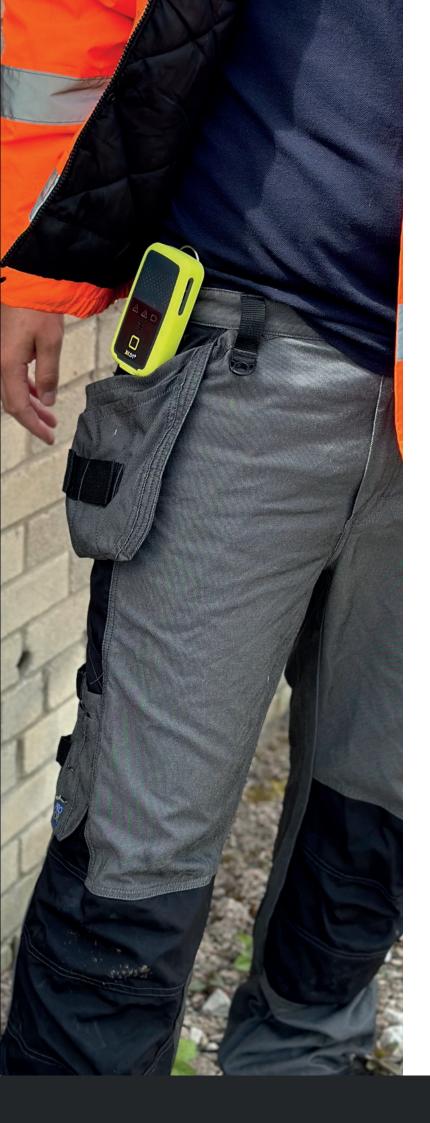
Over half a million people worldwide will die this year from diseases caused by inhaling dangerous dust in the workplace.

It's time to put a stop to this.

If respirable dust is a factor in your business, you need to know about it.

Affordable, real-time continuous monitoring is critical in protecting your workforce and improving the efficiency of processes and working practices; intelligently deploying dust suppression, containment and removal systems, and maximising the effectiveness of PPE.





DUST MONITORING JUST CHANGED.

No other wearable dust monitor compares to **XCD1**⁺ when it comes to size, weight or useability.

With no daily calibration, no filters, pumps or deteriorating sampling, **XKD1**⁺ is built to last in heavy industrial environments.

A quick self-check is performed each time you switch on the **XXD1**⁺, and away you go.

Want more reassurance? Your **XCD1**⁺ will notify you every 3 months that a compliance check is due, giving you the confidence that your **XCD1**⁺ is functioning to the highest standard. There's no return-to-base servicing required with any of our Trolex particulates range.

Using the Trolex Compliance Pack⁺, a simple compliance check can be carried out via our **BreatheLITE** software in around 2 minutes.

Technology made simple.

BREATHEMOBILE APP.

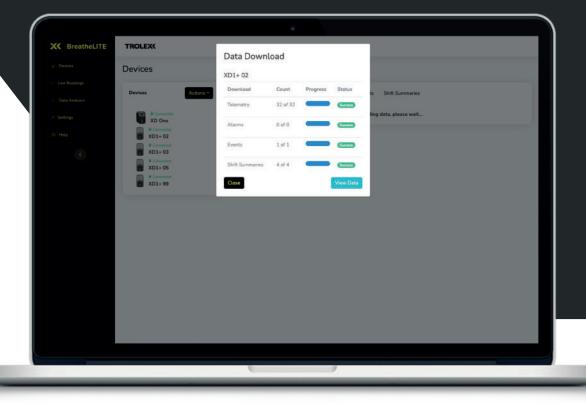
We develop products that help you make a difference and keep your workforce safe.

Want the data live on screen? Simply connect **XCD1**⁺ using NFC technology by holding your **BreatheMOBILE** app close to your **XCD1**⁺.

View your live and historic data, change your threshold settings and see any alarms. "Real-time" really is in real time with **XCD1**+.

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.

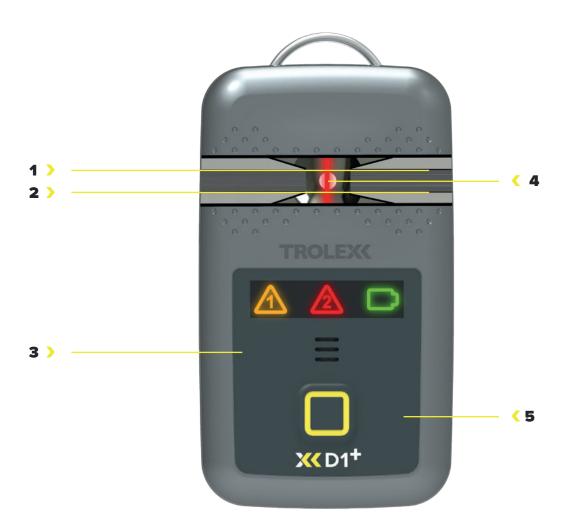
Like the **XCD1**⁺, **BreatheLITE** software is designed to make things simple.

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 **XCD1**⁺ 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.

PIONEERING TECHNOLOGY MADE SIMPLE.



- 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.
- No pump, no pre-filtering, no impactor. XXD1⁺ 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** Dluetooth connectivity and RFID pairing, and data docking make downloading and visualising your particulate data easy.

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/m³
Particulate density range	0.8 g/ml to 8.0 g/ml (default 1.65 g/ml)
Units of measurement	μg/m³ – Logged on device μg/m³ or mg/m³ – 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



XXD1⁺ PERSONAL DUST MONITOR.

A real-time and continuous personal dust monitor. **XCD1**⁺ 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 **XCD1**⁺ 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 **XCD1**⁺. 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 **XCD1**⁺ warns you via the ondevice 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 XCD1⁺ data dock accommodates 5 XCD1⁺ units, with 'plug and play' features that automatically recognise when an XCD1⁺ is present, and downloads the latest data accordingly. Units are also charged, ready for the next use.

We are supporting you to deliver a world class service, every day, in every sector...

LOCATIONS

LONDON, HEATHROW

Sunbelt Rentals UK Test & Monitoring

242-252 London Road, Staines, London TW18 4JQ 0333 122 3126

www.sunbeltrentals.co.uk/find-a-depot/london-heathrow

REDCAR

Sunbelt Rentals UK Test & Monitoring

Unit 5 Kirkleatham Business Park, Redcar TS10 5SQ 0370 330 6021

www.sunbeltrentals.co.uk/find-a-depot/teesside

STOKESLEY

Sunbelt Rentals UK Test & Monitoring

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