

TROLEXK

ONE LIFE PROTECT IT



**XKD
ONE
PERSONAL
DUST
MONITOR**



YOU ONLY GET ONE LIFE. PROTECT IT.

Most serious respiratory diseases are incurable.

We believe that simple, accurate, real-time dust monitoring should be available to every worker who needs it – without exception.

Introducing the XD One – a lightweight, self-contained continuous personal dust monitor with no filters, no pumps, no tubes, and no replaceable parts. Switch it on, secure it in place and off you go.

XD One gives you instant alarms for fully customisable STEL and TWA measurements for PM1, PM2.5, PM4.25, and PM10.

With an automatic self-test routine and a maintenance cycle of around a minute every 3 to 6 months, you can make XD One a standard part of the PPE kit for anyone exposed to respirable dust in the workplace.

PERSONAL DUST MONITORING FOR REAL LIFE

We believe in keeping it simple.

XD One 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.





WEAR IT, FIX IT, MOVE IT.

XD One is personal, portable and mountable. It is a self-contained unit with no tubes, sampling heads, impactors, pumps, or filters. It weighs only 450 g and has a 16+ hour battery life. We offer a full range of mounting options for walls, poles, cabs, and on the body, including on the chest for the oronasal sampling zone.



ALMOST ZERO MAINTENANCE.

The automatic and on-demand self-test routine takes 5 seconds. The one-minute compliance test is required typically every 3 to 6 months. That's it. No return-to-base servicing, complicated set-up, cleaning or calibration routines. PPE for the real world.



ACCURATE, FLEXIBLE, RELIABLE.

0.35 to 40 μm particle size range detection. Selectable density thresholds (mg/m^3). Fully customisable STEL and TWA monitoring with associated alarms for PM1, PM2.5, PM4.25 and PM10. The unit is always recording full total suspended particulates (TSP) and stores up to 10 years data for later analysis.



DATA WHEN YOU NEED IT.

Free [BreatheLITE](#) software provides live data readout and complete data analytics through your laptop or computer. XD One is fully configurable in just a few minutes through [BreatheLITE](#), allowing you to adapt your monitoring capability, maintain audit trails and run reference and compliance checks quickly and easily.

FOR EVERYONE

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

It's time to take action.

If respirable dust is a factor in your business, you need to know about it. 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 minimising the usage of PPE.







PIONEERING TECHNOLOGY MADE SIMPLE

- 1** > Anti-static unrestricted particulate flow-through gives XD One its incredible accuracy and durability – whether detecting microscopic but dangerous particulates or in heavy dust load environments.
- 2** > No pumps, no pre-filtering, no impactor, no tubes and no internal filter – XD One detects the true density of particles in transit, constantly monitoring total TSP in real time.
- 3** > The advanced algorithm processes 10,000 particles per second, providing real-time, highly accurate information to save lives.
Multi-parameter detection points and a
- 4** > wide scatter-zone chamber allows XD One to monitor every particulate flowing through the unit.





XD ONE PERSONAL DUST MONITOR

A real-time and continuous personal dust monitor worn on the body or mounted on a pole, a wall or in-cab. Lightweight and self-contained unit giving early warning of potentially dangerous dust concentrations based on customisable STEL and TWA measurements. No replaceable parts and almost zero maintenance.

COMPLIANCE BASE

Supplied as standard with your XD One. The Compliance Base provides a stand and a convenient base for easy battery charging and for connection to [BreatheLITE](#) software. Combined with the supplied transparent hood the base allows simple and rapid testing to ensure XD One is fully compliant.

COMPLIANCE PACK ONE

A dedicated sample pack for rapid compliance testing of the XD One. Connect the unit to [BreatheLITE](#) software and follow the on-screen instructions for a full compliance check in less than a minute. Compliance testing should be carried out typically every 3 to 12 months depending on dust-loading and should always be done using the [Trolex Compliance Pack ONE](#).

BODY MOUNT KIT

The body mount kit comes with a klick-fast stud, a robust belt loop and a sew-in dock attachment, giving you a variety of options for a secure and non-intrusive solution when using XD One as a personal, on-the-body dust monitor.

WALL/POLE MOUNT KIT

The wall/pole mount kit comes with a klick-fast stud, screw-on mount and a pole bracket, allowing you to mount the XD One securely and rapidly wherever it is needed – and to still be able to remove it quickly and easily.



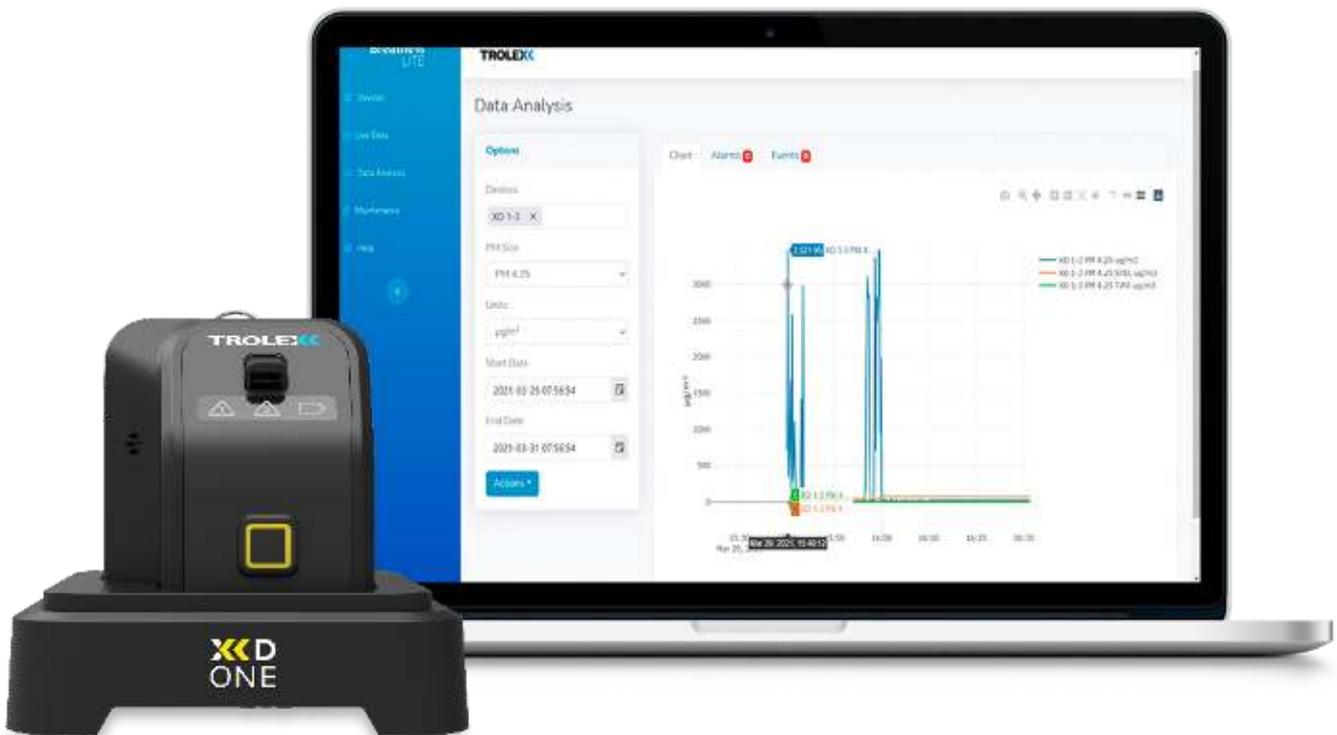
BREATHELITE SOFTWARE

Like the XD One, **BreatheLITE** software is designed to make things easy.

BreatheLITE gives fast access to data, both live and historical, allows you to easily configure your XD One devices, and runs you through the simple compliance check routine in less than a minute.

It's software the way it was meant to be: fast, intuitive and straightforward.

Go to www.trox.com/breathe now to download your free software.



TECHNICAL SPECIFICATION

Sensing technology	OPC light-scatter photometer
Particulate measurement	0.35 to 40 µm (PM1, PM2.5, PM4.25, PM10 and TSP) Custom particle density profiling
Operating temperature	-10 to 45 °C
Humidity	0 to 95% RH, non-condensing
Housing material	PC/ABS – stainless steel
Ingress protection	Main enclosure: IP54 Particle flow path: IP22
Weight	445 g
Data connections	1 x mini USB (max. cable length: 2 m)
Connectivity	BreatheLITE application
User options	STEL and TWA alarm setpoints Latching alarms Particulate measurement
User interface/alarms	Visual Icon illumination (STEL, TWA, battery indication) Audible (85 dB)
Self-test	Sensor hardware, circuitry and battery test on activation Manual self-test during use
Battery capacity	18.72 Wh
Battery run time:	18 hours (full health at ambient)
Charging temperature limits	0 to 45 °C
Max. charge current	1.2 A
Product fixing/body mounting	Personal mounting clip, klick-fast stud, pole mount or custom bracket
Certification	UKCA and CE compliant

ORDER REFERENCE

XD One

With alligator clip **TX8060.00.01**

Alligator clip comes with stability strap as standard.



Alligator clip

Product mounting kits

The XD One product mounting kits allow for klick-fast, quick location and removal of the device for a range of mounting applications. Klick-fast stud also included.

Body mount kit **P5644.4001**

Site clothing or belt mounts.

Body mount kit contents



Klick-fast stud



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 ONE

1 x Compliance Pack P5644.4003

12 x Compliance Pack P5644.4004

The [Compliance Pack ONE](#) allows for the regular performance checking of the XD One against a supplied reference particulate range.



Compliance Pack ONE

Cab charger

Cab Charger P5644.4005

The XD One can be installed and continuously powered using the in-cab 12 to 24 V vehicle charger.



Cab charger

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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