ONE LIFE
PROTECT IT

XKD
ONE

**PERSONAL
DUST
MONITOR**

TROLEX

XKD
ONE

YOU ONLY GET ONE LIFE. PROTECT IT.

Most serious respiratory diseases are incurable.

Which is why 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. Simply switch it on, secure 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.
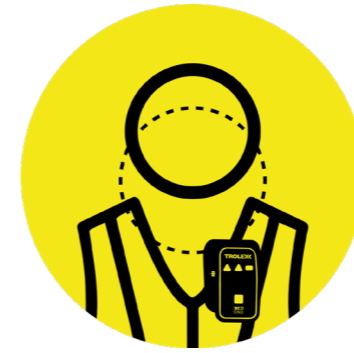
With an automatic self-test routine and a maintenance cycle of around a minute every 3-6 months, you can make XD One a standard part of the PPE kit for anyone exposed to respirable dust in the work-place.

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 450g 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 3-6 months. That's it. No return-to-base servicing, or complicated set-up, cleaning or calibration routines. PPE for the real world.

ACCURATE, FLEXIBLE, RELIABLE.

0.35 – 40um particle size range detection. Selectable density thresholds (mg/m3). 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) data and stores up to 10 years for later analysis.

DATA WHEN YOU NEED IT.

Free BreatheLITE software provides live data readout and full 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 around the world 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, then you need to know about it. Real-time, continuous monitoring is critical in not only protecting your workforce, but also in 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 open-path particulate flow-path allows free flow of air through the unit and gives XD One it's incredible accuracy and durability - whether detecting microscopic but dangerous particulates or in heavy dust load environments.

2 › No pump, no pre-filtering, no impactor, no tube and no internal filter – XD One detects the real content of particulates in the space, constantly monitoring Total Suspended Particulates (TSP) in real time.

3 › Advanced algorithm processes 10,000 particulates/second providing real-time, highly accurate information to save lives.

4 › Multi-parameter detection points and 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, 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 charging of your unit 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 XD One. Simply 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 3-12 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.trolex.com/breathe now to download your free software

TECH SPECS

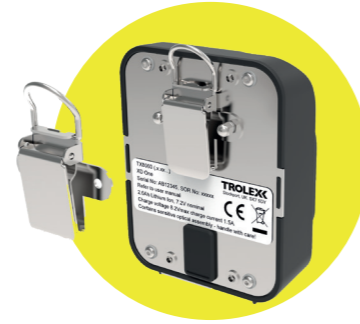|	
Sensing Technology:	OPC Light Scatter Photometer
Particulate Measurement:	0.35µm – 40µm (PM1, PM2.5, PM4.25, PM10 and TSP) Custom Particle Density Profiling
Operating Temperature:	-10°C to +45°C
Humidity:	0 - 95% RH, non-condensing
Housing Material:	PC/ABS – Stainless Steel
Ingress Protection:	Main Enclosure: IP54 Particle Flow Path: IP22
Weight:	445g
Data Connections:	1 x Mini USB (Max Cable Length 2m)
Connectivity:	BreatheLITE Application
User Options:	STEL and TWA Alarm Set Points 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:	16hrs (Full Health at Ambient)
Charging Temperature Limits:	0°C to +45°C
Max Charge Current:	1.2A
Product Fixing/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.

With Klick Fast Stud   TX8060.00.02

Please order either the Body Mount or Wall Mount kit with the Klick Fast Stud.

Alligator Clip

Klick Fast Stud

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.

Body Mount Kit   P5644.4001

Site clothing or belt mounts.

Body Mount Kit Contents

Belt Loop Dock

Sew On Dock

Wall / Pole Mount Kit   P5644.4002

Direct wall mounting, poles or structures.
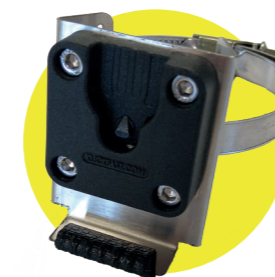
Wall / Pole Mount Kit Contents

Pole Mount

Wall Mount

ORDER REFERENCE

Compliance Pack ONE

Compliance Pack x1   P5644.4003
Compliance Pack x12   P5644.4004

The XD One Compliance Pack 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 12-24V vehicle charger.

Cab Charger

Full List

XD One with Alligator Clip	TX8060.00.01	Compliance Pack x1	P5644.4003
XD One with Klick Fast Stud	TX8060.00.02	Compliance Pack x12	P5644.4004
Body Mount Kit	P5644.4001	Cab Charger	P5644.4005
Wall / Pole Mount Kit	P5644.4002		

At Trolex, we save lives.

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

Our aim is 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.

For more information on Trolex or if you'd like to find out more about the XD One Personal Dust Monitor please contact us at:

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