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TROLEX

LET'S GET REAL



AIR XKS

SILICA MONITOR



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REAL-TIME RCS DETECTION. IT'S HERE.

For the first time in history, putting an end to silicosis caused by the inhalation of silica particulates in the workplace has become a realistic possibility.

The Air XS Silica Monitor, produced by Trolex with the support of the Centre for Work Health and Safety, delivers highly accurate, continuous, real-time silica detection, giving you all the data you need to protect your workforce, improve your processes, reduce costs and ensure that you not only comply with regulations – but that you can prove it as well.

It's time for everybody to step up and protect their best assets – their people – from harm. As of now silicosis is a fully preventable disease.

So, let's get real about monitoring for harmful silica dust.

Go to www.trolex.com/product/air-xs for full details and to arrange a demonstration with your local distributor.



WE BELIEVE IN KEEPING IT SIMPLE...

Which is why the Air XS starts monitoring for respirable crystalline silica (RCS) within a few seconds of powering up and why it typically needs about a minute of maintenance time each month.

No complicated start-up routines, cleaning procedures or complex calibration

programmes, and no return-to-base servicing requirements or waiting on laboratory results.

Just real-time, accurate results when and where you need them.



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➤ Real time, all the time

Air XS gives you 24-hour, real-time information about silica levels on-screen and in greater depth through the [Breathe XS](#) software, allowing you to respond instantly to changing levels of dangerous particulates.



➤ Data to make a real change

User-selectable rolling averages across 15 minute, 1, 4, 8, and 12-hour periods, as well as custom alarm levels. Instant visualisation of trends and incidents through [Breathe XS](#) software allowing you to clearly understand your RCS problem and how to mitigate it.



➤ Almost zero maintenance

All you need is the [Compliance Pack S](#) from Trolex and typically a minute every month to maintain your Air XS. That's it. Real time for the real world.

Go to www.trolex.com/product/air-xs to see the compliance routine in action.



➤ Held to a higher standard

At Trolex, we like to hold ourselves and our products to a higher standard, which is why all our tests are verified by independent authorities, and our accuracy figures are stated in comparison to laboratory-grade certified-accurate benchmark materials.

Go to www.trolex.com/product/air-xs for more information.

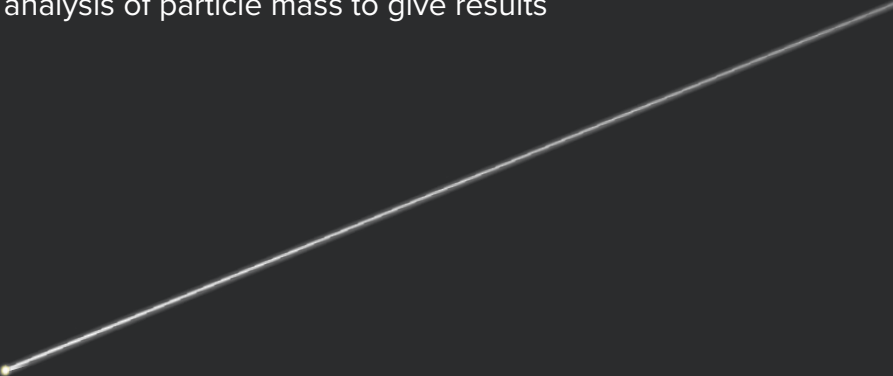


PIONEERING TECHNOLOGY MADE SIMPLE.

Air XS examines multiple detection parameters for RCS in real time, including size, symmetry, and a series of optical markers unique to RCS particles.

It simultaneously deploys optical refraction technology with light-scatter photometry, analysing every particle sampled and classifying them by their identifiable optical properties. In this way, Air XS captures all forms of RCS whether alpha or beta quartz, cristobalite, tridymite, and all relevant sizes of particulate within the respiratory fraction.

This information is then combined with an analysis of particle mass to give results in mg/m^3 and particles per litre.



The Trolex Air XS is simple to install and use. The mobility of the unit allows us to gather information from right across our site for various products. The flexibility of viewing data in real-time next to the plant has helped with both employee and management engagement regarding RCS exposure.

The information that the Trolex Air XS produces has been invaluable in managing our air extraction system across our site. It helps us make informed decisions to ensure that we continue to decrease our employees' exposure to RCS. It also allows the business to make instant decisions based on the data to ensure everyone is protected and that we invest in the right areas.”

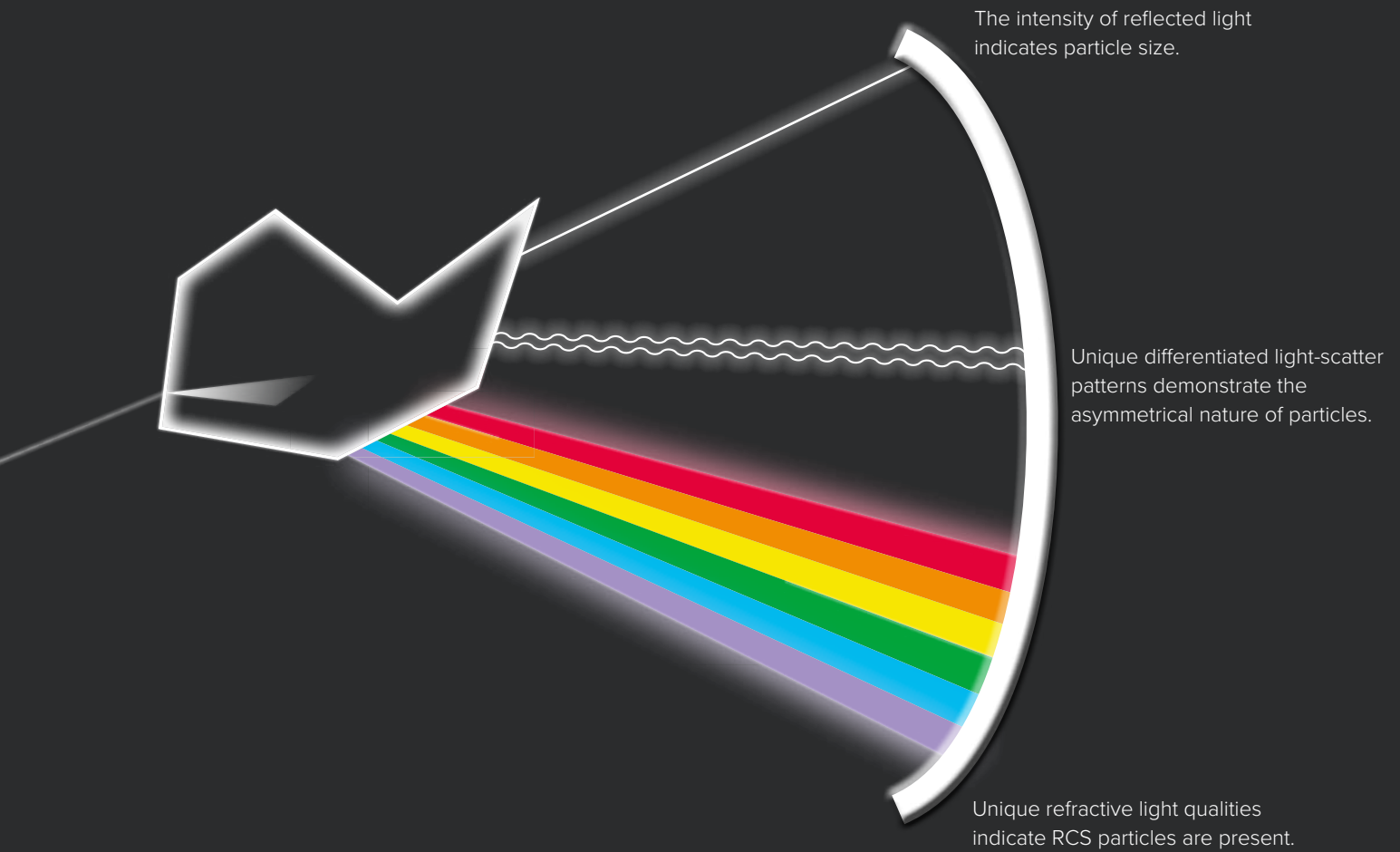
Mike Thompson | QHSE Supervisor | Pennine Aggregates Ltd.

Air XS Advocate.

“The benefit of real-time RCS monitoring for us is ensuring that all our controls are working at their highest level to ensure the safety of our workers and contractors [...] and when we make capital expenditure decisions, we can ensure we target the expenditure on the things that will have the biggest effect on RCS control.”

Aurelien Colas | Unit Manager | Hanson Heidelberg Cement Group.

Air XS Advocate.



Our Breathe⁺ high-speed scatter/sizing/crystallinity detection algorithm processes the results in real time and triggers a triple-voting system that positively identifies and distinguishes harmful silica content.

The result: accurate, robust, real-time reporting in an easy to use and easy to maintain product.

ACCESSORIES



Air XS Transportable Pack

For use in remote locations, or where power is not available, the lightweight Air XS Transportable Pack powers up your Air XS 24-hours a day without interruption. Featuring our unique twin-battery system with built-in prioritisation (the system automatically switches from depleted to charged cells), the Air XS Transportable Pack allows you to hot swap and recharge batteries quickly and easily without interruption to your work and without ever powering down.

Mounted on a robust, high-quality tripod and powered by dual lithium-ion batteries with a typical run cycle of 30 hours per battery.

The standard Air XS can be converted into transportable mode in about five minutes.

Compliance Audit Pack S

A single, easy-to-use pack for all your service, audit, compliance, and QA needs and to verify your Air XS in-situ. All you need is a minute, typically every month to ensure your Air XS is compliant, fully functional, and ready for use. That's it.

No complicated set-up or calibration routines, no return-to-base servicing, and no fuss.

Just [Compliance Pack S](#) and a minute of your time.

The [Compliance Pack S](#) contains the Trolex-approved Compliance Audit dust samples, along with the particulate delivery system with hood, and swap-out filters for 12 compliance audits.



Breathe XS software

Our dedicated [Breathe XS](#) software for Air XS is a clear, easy-to-navigate, easy-to-use platform for storing, viewing, and accessing all of your RCS data.

[Breathe XS](#) provides event logging, Approved Audit Certification and QA verification when required as well as instant alert messaging.

Air XS units can be controlled either in-field using the on-device buttons or using the [Breathe XS](#) software, giving you maximum flexibility and accessibility.

12-month warranty

All Air XS products and accessories come with a 12-month warranty.

To maintain a valid warranty, carry out a monthly compliance check with the [Compliance Pack S](#).



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SPECIFICATION

Particulate sensing parameters

Sensing technology	Optical refraction technology (ORT) Light-scatter photometer (OPC)
Particulate measurement	Target RCS identification range 1 μm - 10 μm
Max. typical dust loading*	150 mg/m^3
Continuous range	25 mg/m^3
Displayed data	RCS mg/m^3 Total particles/litre over the selected averaging period
Resolution	1 μg (1,000 th of a mg)
Averaging period	15 minutes, 1, 4, 8 and 12 hours
Sampling interval	1 - 60 seconds
Particle count	> 600 particles/second
Total airflow rate	~ 1.5 l/m (nominal)
Typical RCS accuracy	$\pm 25\%$

*The instrument can define particulate measurement peak trends up to the quantity specified.

Note: Sustained exposure to dust quantities above 25 mg/m^3 will be logged but they may affect the operating life of the Air XS sensor.

Users should determine specific operating conditions to ensure that the unit is suitable for a particular application.

Technical specification

Operating temperature	-10°C - 45°C
Humidity	0 - 95 % RH (non-condensing)
Housing material	PC/ABS – stainless steel
Ingress protection	Main enclosure: IP65 Particle flow path, cap open: IP42
Weight	8.2 kg
Cable entries	3 x M20 with removable blanks 1 x M20 breather gland 1 x M20 USB connector
Nominal power supply	100 - 240 V ac 50/60 Hz 9 - 18 V dc
Power consumption	15 W
Communications	RS485 data output with MODBUS RTU protocol Ethernet (MODBUS TCP/IP)
External power output	15 V 1 A for powering external devices (e.g., 4G modem) 3 V 3 A
Connectivity	Breathe XS PC/Mac application
Data download	External USB interface
Instrument data storage	6 GB
User interface	128 x 64 dot matrix display with RGB backlight Navigation keypad (membrane)
Visual alarms	Custom alarm set points Latching/non-latching
Indicators	1 x green high brightness LED – sensor heartbeat 1 x blue high brightness LED – communications
Self-test routine	Sensor hardware, circuitry, and communications on 'power on' manual self-test during use
Certification	CE compliant

Go to www.trox.com/product/air-xs for the full Air XS Silica Monitor user manual.

ORDER REFERENCE

Air XS Silica Monitor

TX8100



Breathe XS software

P5628.800.001



Compliance Audit Pack S

P5633.4000



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Transportable Pack

P5628.5000



Additional battery

P5642.5000



AIR X

PARTICULATE RANGE

AIR XD



Game-changing, life-saving particulate measurement technology.

The 4G-enabled Air XD has been designed with one simple purpose – to monitor particulates causing the industry’s biggest problem: diseases and deaths caused by harmful particulates.

Accurate, real-time particulate monitoring that scans for threats in even the harshest and most hazardous working environments.

Go to www.trolex.com/product/air-xd to find out more about the Air XD Real-Time Dust Monitor.



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LEADING SAFETY TECHNOLOGY

XD ONE



XD One is the new lightweight, self-contained continuous personal dust monitor with no filters, no pumps, no tubes and no replaceable parts.

Simply switch it on and in five seconds you're ready to go.

Personal dust monitoring for every single worker at risk from respirable particulates.

Go to www.trolex.com/product/xd-one to find out more about the XD One Personal Dust Monitor.



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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.

For more information about Trolex, please contact us at:

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