

DISTRIBUTED BY:

# Sedulitas

PEOPLE | PASSION | PRECISION

info@sedulitas.co.za +27 (0)82 551 4001  
www.sedulitas.co.za

## TROLEXK

# LET'S GET REAL.



# AIR XKS

## SILICA MONITOR





### ➤ Real time, all the time.

**AIR XKS** gives you 24-hour, real-time information about silica levels on-screen and in greater depth through the **BreatheXS** 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 **BreatheXS** 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 XKS**. That's it. Real time for the real world.



### ➤ 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](http://www.trolex.com/product/air-xs) for more information.

# ACCESSORIES



## Transportable Pack

For use in remote locations, or where power is not available, the lightweight **AIR XKS** Transportable Pack powers up your **AIR XKS** 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 XKS** 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 5 to 6 hours per battery.

The standard **AIR XKS** can be converted into transportable mode in about 5 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 XKS** in-situ. All you need is a minute, typically every month to ensure your **AIR XKS** 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.

All it takes is a 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.



## BreatheXS software

Our dedicated **BreatheXS** software for **AIR XKS** is a clear, easy-to-navigate, easy-to-use platform for storing, viewing, and accessing all of your RCS data.

**BreatheXS** provides event logging, Approved Audit Certification and QA verification when required as well as instant alert messaging.

**AIR XKS** units can be controlled either in-field using the on-device buttons or using the **BreatheXS** software, giving you maximum flexibility and accessibility.

## 12-month warranty

All **AIR XKS** 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.

# SPECIFICATION

## Particulate sensing parameters

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

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

**Note:** Sustained exposure to dust quantities above 25 mg/m<sup>3</sup> will be logged but they may affect the operating life of the **AIR XKS** sensor.

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

## Technical specification

<b>Operating temperature</b>	-10 °C to 45 °C
<b>Humidity</b>	0% to 95% RH (non-condensing)
<b>Housing material</b>	PC/ABS – stainless steel
<b>Ingress protection</b>	Main enclosure: IP66 Particle flow path (cap open): IP22 Particulate flow path (cap closed): IPX6
<b>Weight</b>	8.2 kg
<b>Cable entries</b>	3 x M20 with removable blanks 1 x M20 breather gland 1 x M20 USB connector
<b>Nominal power supply</b>	100 V to 240 V ac 50/60 Hz 9 V to 18 V dc
<b>Power consumption</b>	15 W
<b>Communications</b>	RS485 data output with MODBUS RTU protocol Ethernet (MODBUS TCP/IP) – not yet implemented
<b>External power output</b>	2 x 15 V dc 1 A outputs (for powering external devices)
<b>Connectivity</b>	BreatheXS PC/Mac software
<b>Data download</b>	External USB interface
<b>Instrument data storage</b>	6 GB
<b>User interface</b>	128 x 64 dot matrix display with RGB backlight Navigation keypad (membrane)
<b>Visual alarms</b>	Custom alarm set points Latching/non-latching
<b>Indicators</b>	1 x green high brightness LED – sensor heartbeat 1 x blue high brightness LED – communications
<b>Self-test routine</b>	Sensor hardware, circuitry, and communications on ‘power on’ manual self-test during use
<b>Certification</b>	CE compliant

Go to [www.trox.com/air-xs](http://www.trox.com/air-xs) for the full **AIR XKS Silica Monitor** user manual.



DISTRIBUTED BY:

**Sedulitas**

PEOPLE | PASSION | PRECISION

info@sedulitas.co.za +27 (0)82 551 4001  
www.sedulitas.co.za