

**ONE LIFE.
PROTECT IT.**

*"We believe simple, accurate, real-time dust monitoring should be available to every worker who needs it. **Without exception.**"*

Glyn Pierce-Jones, CEO.

TROLEX

PARTICULATE MONITORING.



**AIR XS
SILICA
MONITOR**



**AIR XD
DUST
MONITOR**



**AIR XD
DUST
MONITOR
*(IS)***



**XD1+
PERSONAL
DUST
MONITOR**

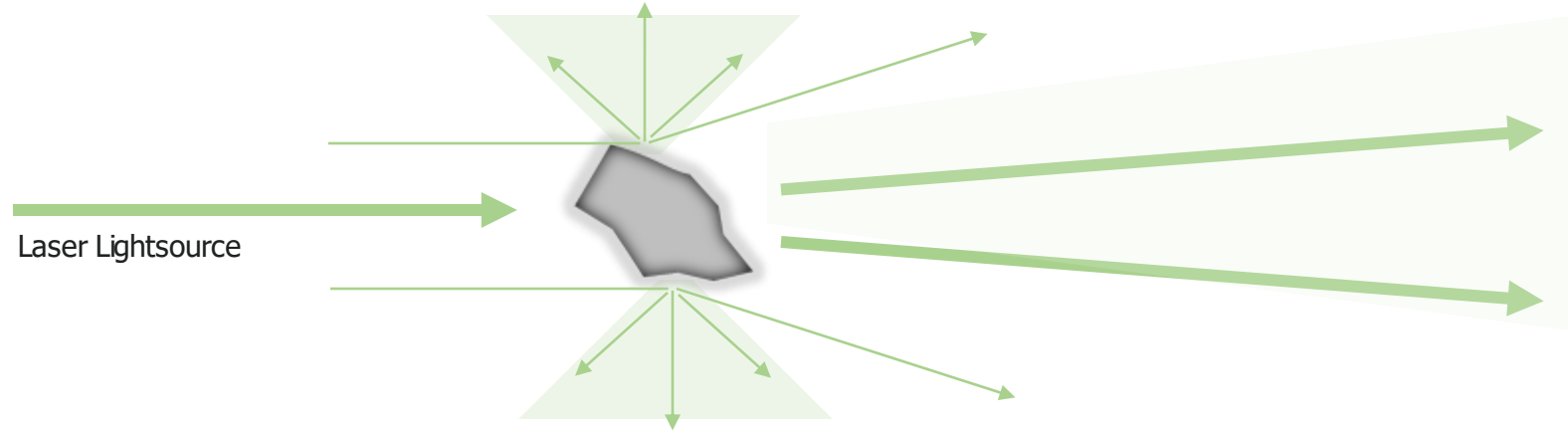
AIR XS SILICA MONITOR.

- Real-time, instantaneous information on changing silica levels in industrial environments
- Provide on-device display of RCS measurement in mg/m^3 over total particles counted per litre of air sampled
- Rolling averaging periods based on 15 min, 1, 4, 8 and 12-hour shift patterns
- On-device warnings and alarms based on custom trigger thresholds (e.g. $0.05 \text{ mg}/\text{m}^3$)
- Data logging for download and post-analysis using the Trolex BreatheXS software application

TROLEX



OPTICAL REFRACTION TECHNOLOGY



Particulate Size



Particulate Sizes 10 um to 1 um

+

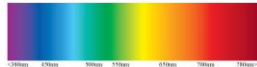
Particulate Density



Reference Density Bulk / Particle

+

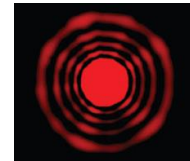
Optical Wavelength



Specifically tuned for Particle Types

+

Optical Diffraction



Changes in optical Light Scatter / Diffraction Pattern

+

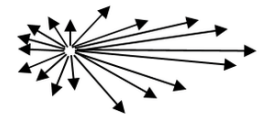
Light Absorption



Reference input vs. output for reference material types

+

Signatures



Particle size, shape, symmetry and structure

TROLEX

DEVICE TESTING AND BENCHMARKING.



Internal Lab
Benchmarking



Site Stress Testing



Independent
Verification

AIR XS APPLICATIONS.



Stone
industry



Construction



Aggregates
and
mineral processing



AIR XD DUST MONITOR.

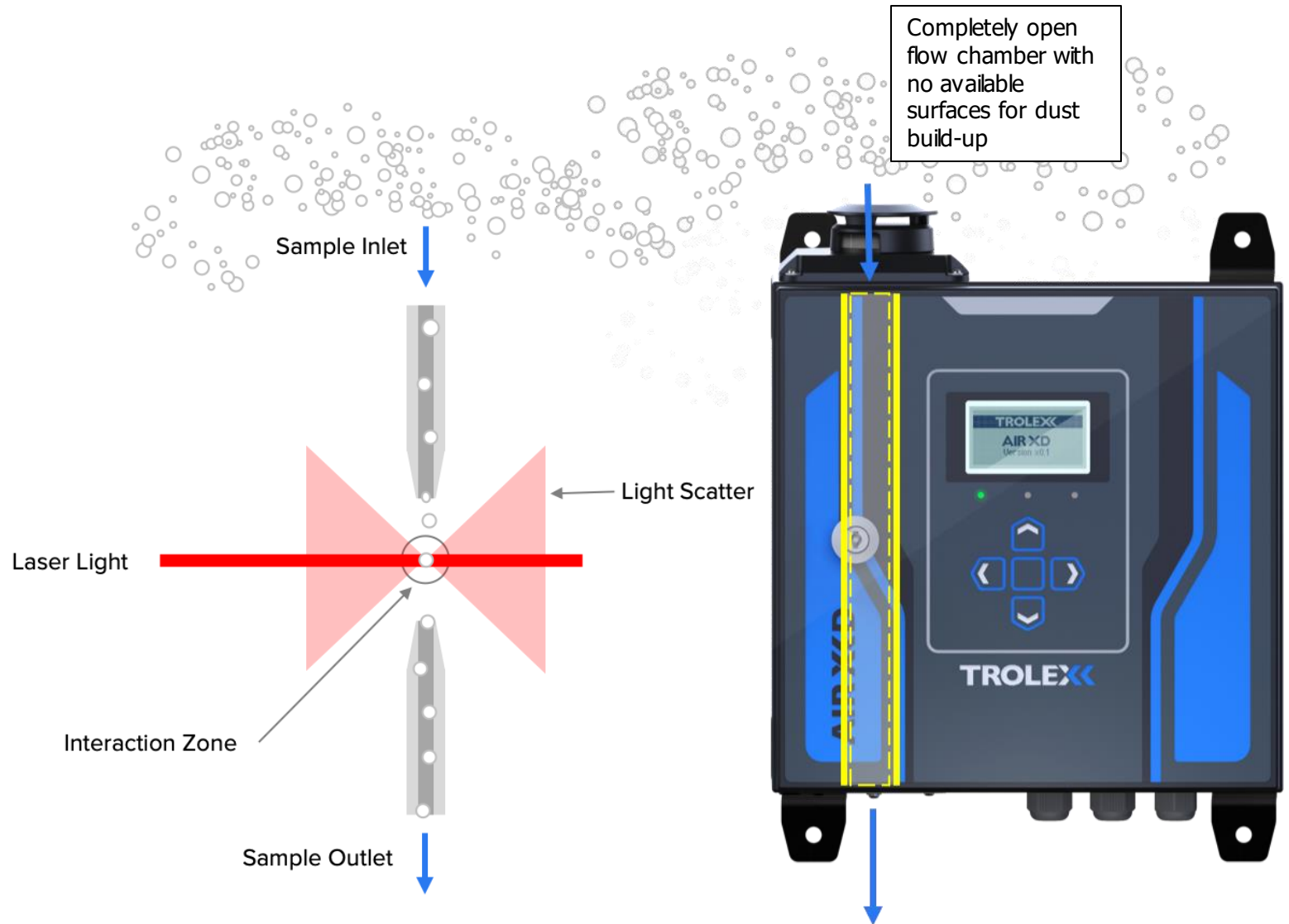
- Real-time, instantaneous information on dust levels in industrial environments
- On-device display of dust measurement in mg/m^3 over total particles counted per litre of air sampled
- Rolling averaging periods based on 15 min, 1, 4, 8 and 12-hour shift patterns
- On-device warnings and alarms based on custom trigger thresholds
- Data logging for download and post-analysis using the Trolex **Breathe** software application

TROLEX

THE AIR XD DIFFERENCE.

Our unique open-path air intake system and high-end multi-parameter laser detection capability make the Air XD difference

Multiple detectors create a highly accurate picture of dust concentration, size and shape



AIR XD APPLICATIONS.



Mining



Quarrying



Infrastructure
building

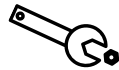
XD1+: SIMPLE AND EFFECTIVE.

170 g: Personal, portable or mountable



User-configurable audio-visual alarms to provide instant warnings to workers who exceed thresholds

No pumps, filters, sampling heads, tubes, impactors, or any other consumable parts



Battery operated, rechargeable (16+ hour battery life)

Virtually zero maintenance



Live readings using **BreatheMOBILE**

TROLEX



FUNCTIONAL.



0.1 μm to 10 μm
particulate detection



RFID tag

Real-time alerts



BLE enabled

Vibration alerts



Robust alligator clip

TROLEXX

WARNINGS WHEN YOU NEED THEM.



STEL
(up to 15 mins)



TWA
(up to 12 hrs)

Live warning mode: Factory set to respirable dust fraction

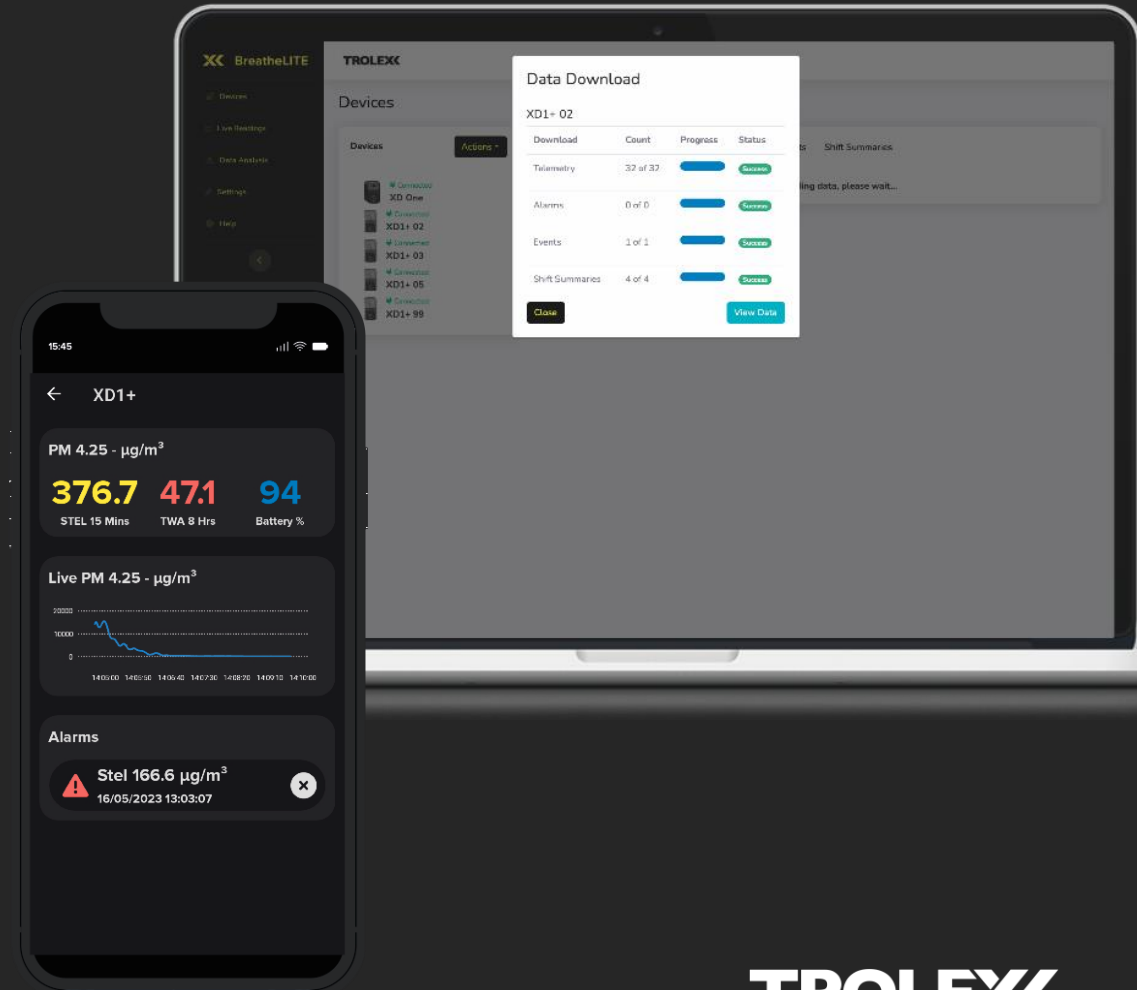
Continuous discrete data logging mode

Visualisation of data and fully customisable in seconds using the **BreatheLITE** or **BreatheMOBILE** software.

SOFTWARE YOU CAN ACTUALLY USE.

Download your data, configure your device, maintain audit trails and run compliance checks – all quickly and easily – using your free **BreatheLITE** software.

Connect directly to **BreatheMOBILE** on your phone, with “tap to pair” Bluetooth technology and track real-time changes in your environment.



TROLEX

XD1+ APPLICATIONS.



Construction



Process
manufacturing



Engineering
operations

TROLEXK