TROLEX

CONNECTED SOLUTIONS
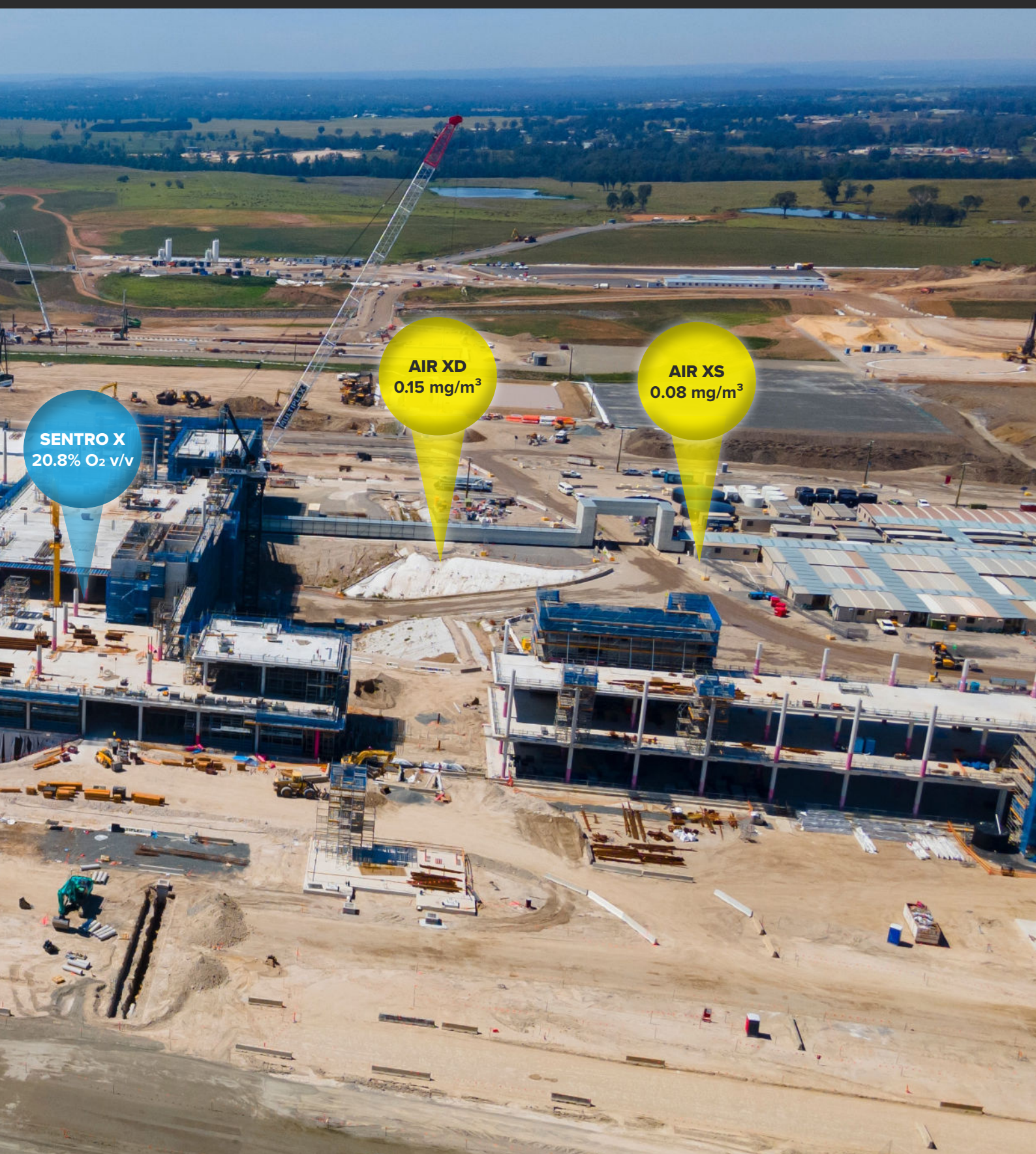
POWERED BY AETHAIR

AIR XS
0.09 mg/m³

SENTRO X
CO · 4 ppm

SENTRO X
CO₂ · 0.23% v/v

AIR XD
0.21 mg/m³

REAL-TIME DATA.

WHENEVER. WHEREVER.

SENTRO X
20.8% O_2 v/v

AIR XD
0.15 mg/m^3

AIR XS
0.08 mg/m^3

INTRODUCING CONNECTED CLOUD SOLUTIONS FOR FIXED HAZARD DETECTION.

For the first time ever, our fixed real-time monitoring technology can now be deployed in partnership with industry leaders, Aethair.

Through the compact plug-&-play Thiamis device, connected with AIR XD and AIR XS, or next generation gas detector SENTRO X, all the data your Trolex real-time device collects will be accessible through Aethair's connected cloud solution, Environet.

Protect your workforce with reliable and assured data.

Prioritise security and data integrity and the ability to engage with simple data interpretation, which includes new AI features helps you understand and identify trends at the click of a button. Data analysis has never been easier.

AIR XS
SILICA MONITOR

It's estimated between 40 to 50 million workers worldwide are exposed to harmful silica dust in the workplace.

AIR XS is designed to function in challenging industrial environments, such as construction and mining, to detect all forms of crystalline silica, whilst tracking changing levels of respirable crystalline silica (RCS) in complex dust mixtures over time.

Thanks to patented Optical Refraction Technology (ORT), continuous measurement of atmospheric RCS concentration is now available regardless of the duration of exposure, providing unique insight into specific task based exposures as well as an overall shift exposure.

When you're monitoring for RCS in real time, we know that you want to access the data your monitor picks up, whenever and wherever you're working through the Environet platform.

AIR XD
DUST MONITOR

When working in heavy-duty, highly dusty environments, your workplace health and safety technology should be able to withstand harsh and hazardous scenarios. Introducing the AIR XD Dust Monitor.

AIR XD, our total area dust monitor, is designed to work in the most hazardous environments. Whether it's low dust-volume clean air environments or heavy dust loads in complex mixtures, AIR XD has got you covered.

Accurate, reliable, real-time dust monitoring that scans for threats in all working environments, with the capacity of low-end resolution measuring down to 0.35 µm.

And our real-time dust monitors become even more valuable when theres live, real-time data available whenever, wherever you need it. All the live and historical data your AIR XD picks up is now available to access through the Environet platform.

SENTRO X
GAS DETECTOR

Our groundbreaking new gas detector, SENTRO X, advances the industry through a combination of high accuracy gas detection and a range of function outputs to support all system requirements.

The simplicity of installation, convenient and practical dynamic menu options, and innovative gas sensing blocs (gBlocs), to monitor for up to 20 variants of toxic, oxygen and flammable gases, is all encapsulated within SENTRO X, built on 60 years of industry expertise, solid reliability and unbeatable accuracy.

SENTRO X is intrinsically safe to ATEX and IECEx certification standards, suitable for all working environments, whether heavy-duty construction and mining sites, to underground occupational locations, making gas detection simple and effective, no matter your workplace.

Thanks to our partnership with Aethair, all the data and information collected by your SENTRO X* gas detector is now available for you as and when you need it.

! *THIAMIS IS AVAILABLE IN GENERAL PURPOSE VERSIONS ONLY.

THIAMIS
AETHAIR

A highly reliable solution that connects our fixed real-time monitoring technology to the versatile Environet platform, simplifying data access and modernising outdated solutions.

Once connected with your fixed real-time monitoring device, Thiamis allows you to collect, analyse and interrogate all the valuable data your device picks up, and much more. All this data is accessible through the Environet platform.

Why do Trolex real-time monitoring customers integrate Aethair technology?

Unmatched data security for seamless, end-to-end encryption and integrity
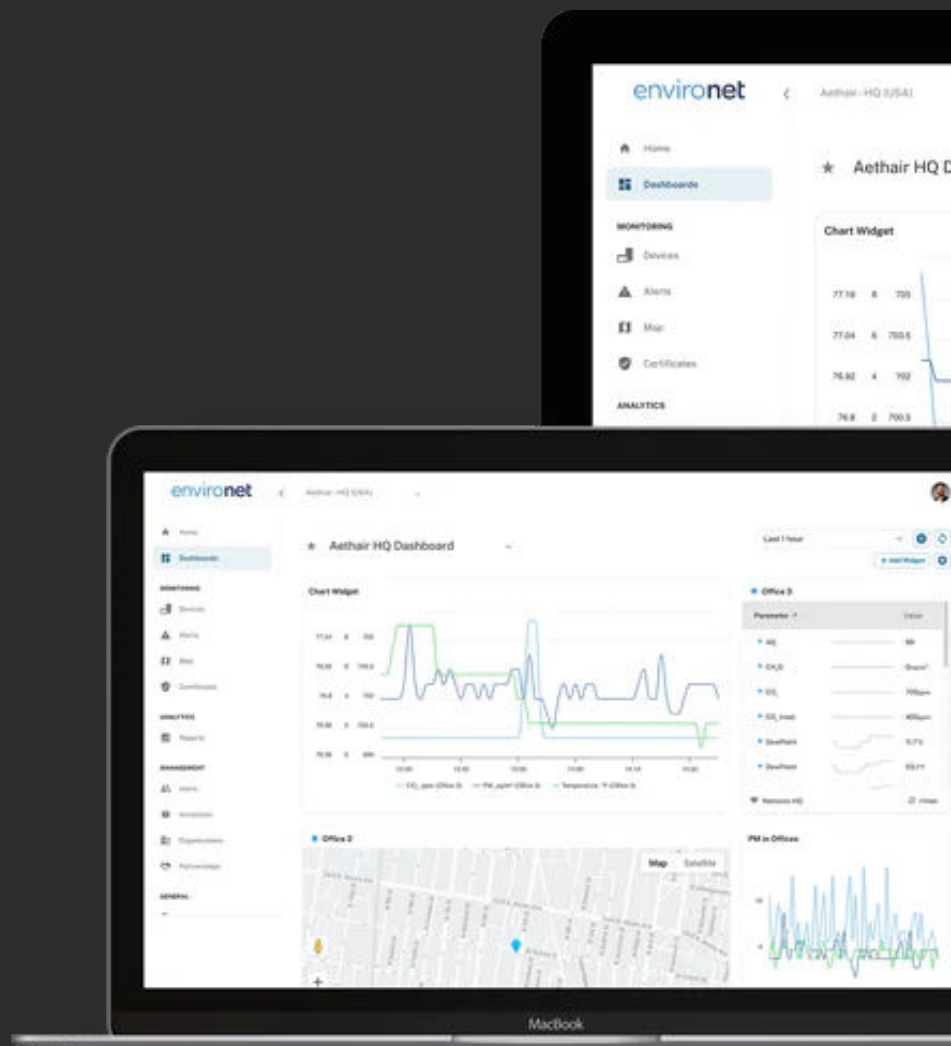
4G
4G LTE connectivity, streamlining the process of collecting and accessing data

24/7 remote data access making all data accessible at any time and place

Plug-&-play functionality including ports for users to connect the user's device

AETHAIR
ENVIRONET

Elevate your on-the-go productivity and decision-making with Environet, where seamless access to valuable data meets an unparalleled user experience.

A trusted connected cloud solution and data platform, where all the information and data your fixed real-time monitoring unit collects comes to life.

It's designed with an architecture that allows seamless accessibility on multiple devices, so your data is readily available in any location, whilst preserving functionality and delivering exceptional user interface and experience. Environet guarantees a consistently smooth and hassle-free interaction with the platform.

- User-customised dashboards for your dust and gas data within seconds, in a format that best suits you.

- Customised real-time alerts for hazardous dust and gas levels, so you never leave worker health and safety to chance again.

- On-demand whenever and wherever, enabling real-time dust and gas monitoring, analysis, collaboration and supported decision making.

- Configure devices to your specific monitoring needs, enabling Wi-Fi, alerts, GPS options and statistic parameter creation.

- Create a network of clients + partners to share and lease devices, assigning users with varying degrees of access.

- View current and live status of devices and zoom into clusters to see the exact location of your device on the map, in real time, from anywhere in the world.

- Open APIs allow for simple integration with our real-time monitoring devices so you can have access to entire ecosystems of instrumentation and devices.

- Consultants can provide as many accesses to devices as required to view and manage data whilst maintaining ownership.

SIMPLIFY YOUR HEALTH + SAFETY PROCESSES WITH AETHAIR

Get simple, effective and valuable data, coupled with an efficient and straightfoward Aethair integration process to your Trolex safety unit.

THINKING OF INTEGRATING AETHAIR TECHNOLOGY?

Choose an option which best suits you.

1 Purchase a Trolex safety unit **plus** an Aethair Thiamis unit + Environet annual subscription plan.

Thiamis units will be pre-assembled by Trolex in AIR X real-time particulate monitors only before delivery with this option.

2 Purchase an Aethair Thiamis unit + Environet annual subscription plan to add to your existing Trolex safety unit.

3 Already have Thiamis + Environet? Simply choose 'Option 1' and let us know what Trolex safety unit you'd like and add your chosen unit through Aethair directly.

ALREADY AN AUTHORISED AETHAIR DISTRIBUTOR?

Contact us if you'd like to distribute our real-time monitoring technology.

TECHNICAL SPECIFICATION

General	Input voltage	12 V dc, USB-C
	Power	4.6 W
	Operating temperature	-30 °C to +75 °C
	Certifications	CE, FCC, PTCRB
Communications	Cellular	4G LTE/3G/2G
	Wi-Fi	802.11 b/g/n
	Bluetooth	Bluetooth 4.0
	Mesh	Zigbee
	GPS	A-GPS, Sensitivity > -165 dBm, 3 m accuracy
	Antenna	Built-in (2G/3G/4G, GPS, Zigbee, Bluetooth) External MCX Female (Cellular and GPS) [optional]
	SIM card	Built-in
Data logging	Digital ports	RS485, RS232 (3-multiplexed), SDI-12, 2 x USB-C
	Delta port	Expansion port for Analog and Digital I/Os
	Wireless ports	Mesh, Bluetooth and WiFi
	Clock	Real time
	Protocols	ASCII, MODBUS, SDI-12. UMB and more
	Memory	Built in

ORDER REFERENCE

Part number	Description
TX8005.00.03.01.01.01	AIR XD General Purpose Wireless Ready ac/dc
TX8005.00.03.01.01.02	AIR XD General Purpose Wireless Ready ac/dc + 1 year data and software
TX8100.00.01	AIR XS General Purpose Wireless Ready ac/dc
TX8100.00.02	AIR XS General Purpose Wireless Ready ac/dc + 1 year data and software
P5675.100.00	AIR XS Wireless Retrofit Kit
P5675.100.01	AIR XS Wireless Retrofit Kit + 1 year data and software
P5675.102.00	SENTRO X Wireless Kit
P5675.102.01	SENTRO X Wireless Kit + 1 year data and software
P5675.200	Extended warranty for X Series Connection Hub (2 years)
P5675.201	1 year data and software renewal

ENHANCE YOUR WORKPLACE SAFETY TODAY

Thinking of introducing our connected real-time monitoring solutions?

Contact us: sales@trolex.com

Find a local distributor: trolex.com/find-a-distributor

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 about Trolex, please contact us at:

Website
trolex.com

Enquiries
sales@trolex.com

Telephone
+44 (0) 161 483 1435

Trolex Ltd
Newby Road, Hazel Grove
Stockport, Cheshire
SK7 5DY, United Kingdom

@TrolexUK