



## Customer Case Study

# Tiger used by leading Thai indoor air quality specialists

High performance handheld PID chosen for anti-humidity design by leading Thai indoor air quality monitoring specialist as part of its audit programme

**Company:** Clean Air Thailand

**Industry:** Manufacturing

**Application:** Air Quality Monitoring

**Requirements:** Required a TVOC detection instruments which could perform in humid environments



## The Background

Clean Air Thailand is a specialist in Indoor Air Quality based in Bangkok, and is dedicated to providing high performance UVGI, also known as UVC, and Ozone equipment to improve the Indoor Air Quality (IAQ) in all air-conditioned buildings.

Established since 2007, Clean Air Thailand designs and manufactures specialist Ozone and UVGI equipment to improve indoor air quality (IAQ). The company also offers an IAQ test service which helps building managers understand what is happening in their properties. The scientific information provided can then be used to introduce IAQ improvement programmes, often without the need for extra equipment.

## Requirement

When its existing photoionisation detectors (PIDs) proved ineffective in high humidity, indoor air quality monitoring specialist, Clean Air (Thailand) Company Ltd turned to ION Science and its high performance Tiger instrument. The handheld detector is being used by the Bangkok-based business as part of its audit programme to measure potentially harmful total volatile organic compounds (TVOCs) in a wide range of buildings including offices, hospitals, hotels and residential properties.

**Philip North,  
Director at Clean Air Thailand:**

*“Even though a building’s IAQ might seem fine, it is essential that all the parameters which make up the air being breathed are regularly assessed. As part of our IAQ audit service, we measure TVOCs present within buildings but our previous monitoring instrument proved unreliable in Thailand’s humid conditions. We provide solutions to customers based on high levels of TVOCs being detected so needed a device we can completely trust when we show before and after readings.”*

### Philip North, Director at Clean Air Thailand:

*“Following recommendation from another business, we chose the ION Science Tiger VOC detector due to its revolutionary PID sensor technology offering excellent humidity resistance and anti-contamination design. As well as providing highly accurate readings, we were impressed with the system’s response time of just two seconds and opted for the data logging function for easy reporting.”*

*“The service from ION Science’s UK operation has been very good. Most importantly, I would give the Tiger instrument top marks for reliability and accuracy. It has proved entirely fit for purpose and can easily cope with the Asia’s extreme humidity.”*



## The ION Science Solution

### Instrument: Tiger Portable PID Detector

Providing market-leading accuracy and run time, the Tiger’s PID sensor capabilities utilise advanced patented Fence Electrode technology, a three-electrode format with increased resistance to humidity (up to 99% RH) and contamination. Combined with 24-hour battery life, these features maximise usage by minimising erroneous readings in high humidity and drift in harsh environments. The anti-contamination design also reduces calibration frequency.

Independently verified as the industry’s best performing PID for its speed of response, accuracy and linearity, the Tiger provided the most stable, repeatable readings when tested against competitor instruments in humid and contaminated environments.

The instrument’s well-proven MiniPID is a simple plug and play sensor that has been specially developed by ION Science to deliver a dynamic and reliable response to thousands of VOCs. Designed for rapid detection, with an unrivalled response time of just two seconds, and the widest measurement range of one part per billion (ppb) to 20,000 parts per million (ppm)\*, the robust Tiger is ready to use, straight out of the box, and extremely simple to set up.

It offers worldwide Intrinsic Safety (IS) certification, making it suitable for use in potentially explosive, hazardous environments, and also meets ATEX, IECEx, UL and CSA standards. Inexpensive disposable parts such as filters and lamps are easy to change, minimising downtime. Simple connectivity to a PC via the USB allows data to be downloaded quickly.

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