



Press Release PR-79

04/05/2017

Massachusetts-based CEC Inc. adds Tiger LT PID to growing portfolio of Ion Science handheld VOC monitors

Latest instrument chosen for competitive price point, streamlined yet durable design and anti-contamination and humidity resistance

Following an increase in demand for its services, Massachusetts-based Civil & Environment Consultants Inc. (CEC) has added a streamlined Tiger^{LT} VOC (volatile organic compound) monitor to its growing portfolio of Ion Science handheld PIDs (photoionisation detectors). This latest instrument was chosen for its durability in the field, extremely competitive price point and anti-contamination and humidity resistant design.

CEC Inc. provides comprehensive market-oriented consulting services that advance client strategic business objectives. The company is recognised for delivering innovative design solutions and integrated expertise in civil engineering, ecological sciences, environmental engineering and sciences, waste management and water resources.



Kyle Fortin, Project Scientist at CEC Inc. comments: “We implement projects that range from overseeing hazardous / non-hazardous contamination clean-ups to designing and maintaining landfills.

Our equipment rental company, US Environmental Rental Corporation, has typically recommended Ion Science handheld Tiger PIDs in the past for headspace screening of volatile organic compounds (VOCs) in soil, ambient air screening during chemical clean-ups and in landfill soil gas probes.

“US Environmental Rental Corporation is extremely trustworthy and has helped our business significantly over the years. As a result, we are happy to go with their suggestion that a specific instrument is superior to comparable VOC monitors on the market.”

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Offering worldwide intrinsically safe (IS) certification for use in potentially explosive atmospheres, the recently launched Tiger^{LT} is a streamlined, lower cost version of Ion Science's well-proven Tiger instrument.

Kyle continues: "Our office has doubled in size during the past three months so we had an urgent need for an additional PID. The Tiger^{LT} was a great choice because of its competitive price point and proven reliability of the Ion Science instruments we have experienced in the past."

The Tiger^{LT} incorporates Ion Science's market-leading MiniPID 2 technology with advanced patented fence electrode system. The three-electrode format ensures increased resistance to humidity and contamination for ultimate reliability and accuracy in the field, as well as considerably reduced drift issues and extended run time.

"We generally use the Tiger^{LT} for field screening of VOCs in dusty or humid conditions therefore the anti-contamination and humidity design is crucial for our line of work in the environmental field," comments Kyle. "The durability and reliability of the Tiger^{LT} is exceptional for outdoor use especially in New England where temperature and weather can experience extremes."

With a detection range of 0 to 5,000 parts per million (ppm) with a 0.1 parts per million (ppm) minimum sensitivity, Tiger^{LT} offers a response time of just two seconds and is equally quick to clear down.

Simple to operate and service, Tiger^{LT} allows easy access to the lamp and sensor whilst the batteries can be safely replaced in the field. It also meets required ATEX, IECEx, North American and Canadian standards.

"We are using the Tiger^{LT} up to three times per week with data recorded in our field books. The calibration is easy and keeps the accuracy and reproducibility within an acceptable range," adds Kyle.

The Tiger^{LT} six pin MiniPID detector cell with anti-contamination design dramatically extends run time in the field. Low cost filters and lamps can be easily changed in minutes, minimising downtime.

The instrument features long life rechargeable Li-ion batteries which give up to 24-hour usage. Fast battery charging allows it to be fully charged in 6.5 hours, while up to eight hours of use can be achieved from 1.5 hours of charging time. Performing basic functions does not require complicated set up procedures using a PC.

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Tiger^{LT} features a protective, removable boot for harsh environments and large, clear back-lit display allows for easy viewing in any light condition. It is IP 65 rated against water ingress. An integrated torch is designed for directing the instrument's probe into dimly lit areas. Other features include a loud 95 dB audible alarm and multiple language support.

Kyle continues: "The distributor recently gave a presentation on the Ion Science product range at a seminar my young professionals committee helped to organise. It was very useful for other companies to see the reliability and durability of the Tiger instruments.

"We have nothing but good things to say about the Ion Science Tiger series of handheld PIDs and the distributor is always very helpful when questions arise," he concludes.

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