

November 2015:

Did you know that specialty light sources are being used in the detection of explosives and narcotics, to safeguard society and protect our way of life?



Demand for hazardous materials monitoring is ever increasing: from the growing awareness of the dangers from chemicals used in common industrial processes, to the increasing threat of terrorism at our airports, borders and critical infrastructure. One set of materials – Volatile Organic Compounds (VOCs) – can be detected with very high sensitivity using Photoionisation Detection (PID).

Photoionisation is the term for the absorption of high energy photons by a molecule which results in ionisation of that molecule. The current created by ionisation is proportional to the concentration of the molecule, so this provides a simple method for quantitative

analysis of a variety of compounds.

Explosives Trace Detectors (ETD) now use Photoionisation Detector lamps, which have traditionally been employed in general gas chromatography, trace gas monitoring and sample ionization for mass spectrometry. The need for monitoring VOCs is driving demand for Heraeus' PID lamps. Customers benefit from our design expertise, as the Heraeus technical team works with OEMs to design and build custom products to satisfy specific dimensional and performance requirements.

Automated manufacture of PID lamps – once considered a dream in the distant future – is now a reality! Heraeus Noblelight is the first PID lamp manufacturer to offer automated production. Longer lifetime, higher quality and better lamp-to-lamp consistency.

Please read further, if you would like to learn more about the advantages of using [Heraeus PID lamps](#) or [contact](#) the experts to discuss your requirements for precise analyses.

Further questions related to the “International Year of the Light”?
Write us an e-mail to hng-presse@heraeus.com