# Baseline-MOCON's New piD-TECH *plus* Photoionization Sensor Series Offers Compact Size, Superior VOC Analysis

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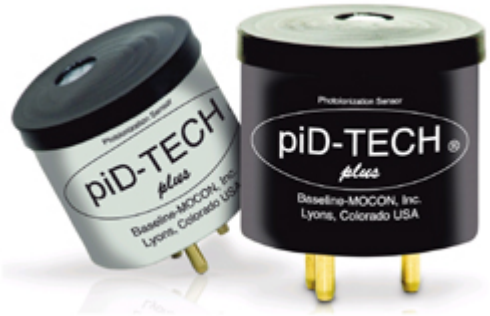
Lyons, CO - Baseline-MOCON, Inc., a subsidiary of MOCON launches two new patented piD-TECH® *plus* photoionization sensors for portable and stationary gas monitors.




The new generation sensors are ideal for instrumentation manufacturers who want to add state-of-the art, low-level volatile organic compound (VOC) detection to their portable or stationary monitor. The piD-TECH *plus* sets a new standard by being able to measure concentrations lower than previously possible with other comparably-sized sensors.

The units offer a broader dynamic range and are the least sensitive to humidity vs. other piD sensors. (Humidity interferes with accurate gas measurement.) This delivery of superior accuracy has been achieved via the addition of a dual-layer ionization detector cell with a grounding plane in the middle. Improvements in the gold cell production process also results in a more robust offering with better cell surface characteristics.

The piD-TECH *plus* Black Label has a linear dynamic range of 0.1 ppm to 2,000 ppm. The piD-TECH *plus* Silver Label has a linear dynamic range of <0.01 ppm to 20 ppm.

Both of the new sensors have passed Underwriter's Laboratories "certified component" requirements. This reduces the steps manufacturers have to take to obtain an "intrinsically-safe" certification rating for instruments containing the piD-TECH *plus*. When Baseline-MOCON engineered the new series, its goal was to achieve electrical entity parameters (voltage, current, capacitance, etc.) that would allow operation in a hazardous environment.

Additional upgrades include a compact design which makes it easier than ever before to integrate this type of gas-measuring sensor into multi-use, portable instruments. The sensor has been designed with an industry-standard footprint and power requirements. The piD-TECH *plus* also features a cap locking feature so that the gas entry port will always be aligned in the proper position for easier service.

The series is based on a photoionization detector (PID). The sample gas is exposed to an ultraviolet lamp. The =10.6 eV light emitted by the lamp ionizes and excites the targeted gases in the sample so they can be detected by the instrument and reported as a concentration. Chemicals such as VOCs with an ionization potential =10.6 eV will be detected by photoionization.

Ideal applications are gas analyzers which target industrial hygiene and safety monitoring; soil contamination and remediation; HAZMAT sites and spills; low-concentration leak detection; EPA Method 21 and emissions monitoring and arson investigations.

*SOURCE: Baseline - MOCON, Inc.*