

VTK Series™

New LED Fuel Fluorescence Detector for ANY 2010 Series VTK DataPack



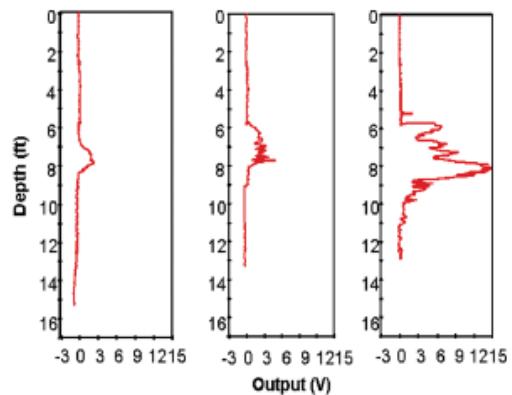
Rapid Site Characterization - Vertek's downhole LED Fuel Fluorescence Detector (FFD) measures fluorescence produced by aromatic hydrocarbons when excited by ultraviolet (UV) light. Pushed with Vertek's Cone Penetrometer Technology (CPT) equipment, the FFD significantly reduces the time required to detect and delineate the extent of hydrocarbon fuel spills or leaking storage tanks.

FFD Features:

- FFD uses standard Vertek CPT cables, and any Datapack 2010 Series Acquisition System with the exception of the DATAPACK 2000F or 2000FS.
- No need to thermally stabilize the light source, which can take up to 30 minutes with conventional UV lamps.
- Dual Photomultiplier Tubes (PMTs) - Tuned to different wavelengths, our dual PMTs are able to differentiate between light and heavy hydrocarbon contaminants.
- Licensed and patented Sapphire Window technology for maximum window life and high transmissivity of UV light.

Typical FFD results from three colinear soundings conducted across a hydrocarbon contaminant plume. (source: HANDEX Corp.)

The data from each of the soundings shown were presented to the customer within 15 minutes after the CPT sounding.



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Immediate Savings - This innovative technology produces savings at each step in the site characterization process. The CPT delivery system generates minimal investigation-derived waste, reducing containment and disposal costs. Additional savings are realized due to a reduction in time required to complete the investigation.

Continuous Measurement - Vertek's FFD provides a continuous, real-time output of fluorescence over the entire depth of the sounding. This information can be viewed graphically in real-time with Vertek's CPT Data Acquisition System (DAS) as the probe is advanced, providing a more complete characterization of the plume's extent than traditional discrete sampling techniques.

Our new FFD utilizes a UV LED rather than our previous models that used mercury UV lamps. They are now compatible with any 2010 Series VTK Datapack. There is no longer a need to purchase a specialized acquisition system for our new FFD cones.

Specifications

- UV Light Source: LED
- Excitation Wavelength: 254nm
- Housing: Hardened Steel with Durable Coating
- Optical Window: Replaceable Sapphire
- Detection Limit: <100 ppm (TPH) in Sandy Soil
(Fuel & Soil Dependent)
- Power: 12 VDC, 5 Amp., 60 W
- Dual Outputs:
 - Low Filter 280-450 nm
 - High Filter 475+ nm
 } 0-3 VDC A/D
- Optional Filter Wavelengths: Per Customer Specification

