



ECOPROBE 5

Handheld PID/IR Soil & Groundwater
Contamination Survey
Analyzer

General overview

- Detection principle** : PID (Photoionization Detection) and four-channels selective IR (infra red spectroscopy) analyzer
- Detected chemicals** : PID channel - volatile organic compounds (VOCs), toxic gases including chlorinated hydrocarbons, no interference from natural methane
 IR channels - petroleum hydrocarbons, methane, CO₂, N₂O (optional)
 Others - O₂, H₂S (optional), soil, gas, temperatures, and ambient pressure
- Operation** : Handheld device measuring all channels simultaneously, powered by an internal battery for full-day operation. Can operate remotely within a connected monitoring station network with remote control and data download capability.
- Control** : User-friendly operation control via 4-button keypad

Photoionization detection (PID)

- Detection limit:** Standard mode - 100 ppb
 Hi-sense mode - 10 ppb
- Dynamic range:** Up to 4 000 ppm
- Response time:** 0.1 s
- Sampling rate** : 10 measurements per second
- Zero stability** : 1 ppb (automatic zeroing)
- PID lamp** : Standard - 10.6 eV or 10.2 eV
 Optional - 9.6 eV or 11.7 eV

Infra red spectroscopy (IR)

- Measurement** : Petroleum hydrocarbons (T.P.), methane, CO₂, N₂O (optional)
- Detection limit** : T.P. - 200 ppm,
 methane - 200 ppm,
 CO₂ - 50 ppm
- Dynamic range** : Up to 500 000 ppm
- Response time** : 1 s
- Sampling rate** : 10 measurements per second

Other readings

- Chemical** : O₂, H₂S (optionally)
- Temperature** : Soil, sampled gas, ambient
- Ambient** : Atmospheric pressure

Connectivity

- Communication:** USB 2.0 / RS-232
- Positioning** : Attachable GPS module

Power Supply

- Battery** : Internal rechargeable lead-acid battery for full-day operation
- Charging** : 100 - 240 VAC charger
 CLA car charger (optional)

Physical

- Size** : 260 x 170 x 105 mm
 (including handle)
- Weight** : 3.0 kg
- Shipping weight:** 13.0 kg (including transport case, probes, calibration kit, accessories)

Support

- Training** : No special operator training or qualifications required
- Remote check** : Available via internet

Environmental

- Contains no toxic components
- Contains no radioactive components
- Fully recyclable by manufacturer

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