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MicroFID II™

Portable Flame Ionization Detector

PORTABLE FLAME IONIZATION DETECTOR FOR VOLATILE ORGANIC COMPOUNDS

The intrinsically safe, portable MicroFID II Flame Ionization Detector (FID) is designed for HAZMAT detection, confined space entry and soil gas monitoring.

PRECISE MEASUREMENT OVER A WIDE DETECTION RANGE

MicroFID II flame ionization detection provides measurements over a wider range of volatile organic compounds (VOCs), including methane, than photoionization detectors (PIDs). Further, MicroFID II has an operating range of 0.1 ppm to 50,000 ppm, helping to better define the severity of the hot zone.

SAFE FOR EXPLOSIVE ENVIRONMENTS

MicroFID II is intrinsically safe, rugged and easy to use. When sampling in an unknown, potentially explosive environment, responders can be confident the area can be safely entered with MicroFID II. It is certified as intrinsically safe to North American UL standards for use in potentially explosive environments.

DESIGNED FOR FIELD USE

MicroFID II boasts a 13 hour battery life, so you can stay in the field longer. It is portable, lightweight and can be easily carried using the oversized handle. The combination of the conveniently mounted sampling inlet, large keypad, backlit display and rapid sampling response time all contribute to the instrument's ease of use. With the optional telescoping probe, backpack and handheld device, MicroFID II is the obvious choice for field applications.

FEATURES AT A GLANCE

- Intrinsically safe
- 13 hour battery life
- Telescoping probe (optional)
- Built-in Bluetooth wireless technology
- Rechargeable 10-hour low pressure hydrogen supply that weighs only 105 g (3.7 oz.)

APPLICATIONS

- Chemical incident response
- Arson accelerant investigations
- Soil gas monitoring
- Petroleum products tank entry

ADVANCED WIRELESS TECHNOLOGY

Optional intrinsically safe PDA also available.

MicroFID II represents the newest generation in flame ionization detection with integral Bluetooth® wireless technology and programming for optional data transfer to a handheld device (computer, PDA or mobile phone). Additionally, if a flameout occurs, MicroFID II can be restarted from the handheld device.

UNIQUE, LOW PRESSURE HYDROGEN FUEL CYLINDER

The revolutionary Hydrostik™ metal hydride hydrogen fuel cylinder provides high purity, low pressure (80 psi) hydrogen to MicroFID II for continuous VOC monitoring. This conveniently-sized, refillable cylinder provides 10 hours of hydrogen supply and can easily fit in your pocket. It is approved by the International Civil Aviation Organization (ICAO) to be shipped via air cargo or hand-carried (limit of two per person) onto an aircraft, so MicroFID II will be ready for use upon arrival at the sampling site.

SPECIFICATIONS

Operating temperature range	0° to 50°C (32° to 122°F)
Operating humidity range	0 to 100% (non-condensing)
L x W x H	330 x 305 x 76.2 mm (13 x 12 x 3 in.)
Weight	5 kg (11.0 lb.)
Battery	13 hours operation, nickel metal hydride (NiMH)
Keypad	Three menu keys
Display	Large 7.1 cm (2.8 in.) diagonal active area
Alarm	Audible at 85 dB, visual red LED on instrument body
Data logger memory	24,000 readings interval mode; 5,000 readings in location mode
Bluetooth module maximum output power	<5 mW
Bluetooth frequency range	2402.0 to 2480.0 MHZ
Connectivity	Bluetooth technology embedded for wireless data connection
Detector	Flame Ionization Detector (FID)
Response time	90% of full scale in <3 seconds
Operating concentration range	0.1 to 50,000 ppm
Repeatability	±2% at 100 ppm methane or above
Accuracy	<10% or 1 ppm, whichever is greater
Calibration standards	Methane, hexane or propane
Fuel	99.999% UHP (Ultra High Purity) hydrogen
Fuel cylinder	Metal hydride, 10 liters capacity, 80 PSI cylinder pressure, 10 hour discharge time / 140 minute recharge time
Fuel cylinder weight	105 g (3.7 oz.)
Fuel cylinder dimensions	Ø22 x 88 mm (Ø0.87 x 3.46 in.)
Intrinsic safety	Class 1, Division 1, Groups A,B,C and D (UL 913)
FCC	Class B digital device, pursuant to Subpart B, Class B of Part 15 of the FCC rules

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