



DP-IR+TM

The Detecto Pak-Infrared+ (DP-IR+) is an extremely sensitive, advanced leak detector capable of detecting methane without false alarming on other gases. The DP-IR+ is the latest generation of leak survey instruments from Heath that will greatly improve the productivity and

safety of a walking/mobile survey because of high sensitivity and fast response. It is also an effective tool for Method 21 emissions leak detection.

The DP-IR+ functions by using an infrared optical gas detection system with sample gas pumped into the instrument through a probe. This instrument is intended to replace current surveying equipment using the traditional Flame Ionization with technology utilizing a simple light beam, eliminating the need for expensive gas cylinders and refill systems. It is designed to be selective to detecting natural gas/methane only and will not false alarm on other gases which may be encountered during a normal natural gas pipeline leak survey.

The DP-IR+ operates under a variety of environmental conditions including cold or hot weather. Its rugged design will stand up to normal field use and operating conditions.

The DP-IR+ has built-in Self-Test and Zero functions to assure the operator the instrument is operating properly. Using the internal calibration cell, the operator can perform the self-test as part of a daily start up routine. While in operation, the DP-IR+ continuously monitors several parameters to ensure the instrument is functioning properly. Should any of these parameters go outside of the operational limits, an audible alarm will sound and a Fault/Warning error message will be displayed.



SPECIFICATIONS

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|-------------------------------------|--|--|
| Detection Method: | Infrared Controlled Interference Polarization Spectrometer | |
| Measurement Range: | 0 to 10,000 PPM; 1 to 100% Gas | |
| Display Range: | Auto Ranging PPM: 0-10,000 %Gas: 1-100% | Manual Ranging PPM scale: 0-10,000 %Gas scale: 0-100% |
| Sensitivity: | 1 PPM | |
| Resolution: | 0-1000 PPM: 1 PPM 1000-10,000 PPM: 5 PPM 1-100%Gas: 0.1% | |
| Accuracy: | Greater of $\pm 0.5\%$ or $\pm 10\%$ of reading (normal temperature and pressure, % gas on manual mode) | |
| Response Time: | PPM Mode: $T_{10} < 0.7s, T_{50} < 1.3s$ PPM Mode with Survey Probe: $T_{10} < 1.2s, T_{50} < 1.8s$ %Gas Mode with Method 21 Probe: $T_{50} < 1.8s, T_{90} < 2.5s$; Recovery Time $T_{10} < 2.0s$ | |
| Sample Flow Rate: | 2.0 LPM (with Survey Probe attached) | |
| Connectivity: | Bluetooth 5 Low Energy (BLE) (compatible with iOS, Android and Windows devices) | |
| Detection Alarms Modes: | Digital Methane Detection (DMD): Audible tone when detection threshold exceeded. Adjustable Alarm Level from 1 to 9,000 PPM Tick: Continuous audio tone relative to concentration | |
| System Fault Warning: | Audible tone and indication on the display | |
| Self Test & Calibration: | Built in Self Test and Calibration function verifies operation and adjusts calibration for maximum sensitivity. Test gas cell integrated within the instrument. | |
| Compliance: | EN 61326-1 Conducted Emissions Class B Radiated Emissions Class B ANSI C63.4 Class B FCC 47 CFR Part 15 Class B | EN 61326-1 EN 61000-4-2 4kV/8kV EN 61000-4-3 3 V/M |
| Dust Filter: | Replaceable filter provides dust protection. Easy change-out quick disconnect filter cap. | |
| Display: | Large easy to read backlit LCD (0.75" Numeric) | |
| Operating Temperature: | 0 to +122 F (-17 to 50 C) (nominal battery voltage) | |
| Humidity: | 5 to 95% RH, non-condensing | |
| Enclosure: | IP54 (Water splash and Dust resistant) | |
| Instrument Weight: | 5.6 lbs. | |
| Carry Case: | 13 lbs empty; 21 lbs filled 24.5" x 21" x 9" | |
| Power Supply: | Internal rechargeable Li-ion battery or External 12 Vdc car battery with power conditioner | |
| Battery Operating Life: | 8 hours at 32° F without backlight on | |
| Battery Charger: | External, in-line, 110 - 240 VAC, 50 / 60 hertz. 10 hours to 90% charge | |
| Shoulder Strap: | Single over the shoulder padded strap | |
| Alarm Volume: | 108 dBs @ Alarm port (A-fast) | |
| Survey Probe: | Quick connect fitting with locking clasp. Adjustable length from 25" to 41" | |
| Bar hole Probe: | Std: 20"; Optional 36" | |
| Method 21 Probe (optional): | Std: 5', with quick connect fitting and locking clasp | |
| Intrinsic Safety: | Class I Division I Group D T3 UL 913, CSA 22.2 No. 157, MET Labs #E112840 | |

HPN 102390-1

Kit includes:

Carrying case, battery charger, shoulder strap, survey probe, bar hole probe, dust filters, water filter and CD manual.

