



DP-IR™

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.



Your Safety...Our Commitment

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SPECIFICATIONS

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, sur-
vey probe, bar hole
probe, dust filters,
water filter and CD
manual.



* These features only available on DP-IR+ released January 2020 onwards.

Heath Consultants Incorporated operates under a continual product improvement program and reserves the right to make improvements and/or changes without prior notification.



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