



# 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

<b>Detection Method:</b>	Infrared Controlled Interference Polarization Spectrometer	
<b>Measurement Range:</b>	0 to 10,000 PPM; 1 to 100% Gas	
<b>Display Range:</b>	<b>Auto Ranging</b> PPM: 0-10,000 %Gas: 1-100%	<b>Manual Ranging</b> PPM scale: 0-10,000 %Gas scale: 0-100%
<b>Sensitivity:</b>	1 PPM	
<b>Resolution:</b>	0-1000 PPM: 1 PPM    1000-10,000 PPM: 5 PPM    1-100%Gas: 0.1%	
<b>Accuracy:</b>	Greater of $\pm 0.5\%$ or $\pm 10\%$ of reading (normal temperature and pressure, % gas on manual mode)	
<b>Response Time:*</b>	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 $T_{10} < 2.0s$	
<b>Sample Flow Rate:*</b>	2.0 LPM (with Survey Probe attached)	
<b>Connectivity:*</b>	Bluetooth 5 Low Energy (BLE) (compatible with iOS, Android and Windows devices)	
<b>Detection Alarms Modes:</b>	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	
<b>System Fault Warning:</b>	Audible tone and indication on the display	
<b>Self Test &amp; Calibration:</b>	Built in Self Test and Calibration function verifies operation and adjusts calibration for maximum sensitivity. Test gas cell integrated within the instrument.	
<b>Compliance:</b>	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
<b>Dust Filter:</b>	Replaceable filter provides dust protection. Easy change-out quick disconnect filter cap.	
<b>Display:</b>	Large easy to read backlit LCD (0.75" Numeric)	
<b>Operating Temperature:</b>	0 to + 122 F (-17 to 50 C) (nominal battery voltage)	
<b>Humidity:</b>	5 to 95% RH, non-condensing	
<b>Enclosure:</b>	IP54 (Water splash and Dust resistant)	
<b>Instrument Weight:</b>	5.6 lbs.	
<b>Carry Case:</b>	13 lbs empty; 21 lbs filled 24.5" x 21" x 9"	
<b>Power Supply:</b>	Internal rechargeable Li-ion battery or External 12 Vdc car battery with power conditioner	
<b>Battery Operating Life:</b>	8 hours at 32° F without backlight on	
<b>Battery Charger:</b>	External, in-line, 110 - 240 VAC, 50 / 60 hertz. 10 hours to 90% charge	
<b>Shoulder Strap:</b>	Single over the shoulder padded strap	
<b>Alarm Volume:</b>	108 dBs @ Alarm port (A-fast)	
<b>Survey Probe:</b>	Quick connect fitting with locking clasp. Adjustable length from 25" to 41"	
<b>Bar hole Probe:</b>	Std: 20"; Optional 36"	
<b>Method 21 Probe (optional):</b>	Std: 5', with quick connect fitting and locking clasp	
<b>Intrinsic Safety:</b>	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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