DETECTO-PAK 4 (DP 4®)

The ruggedly designed DP 4 utilizes portable flame ionization detection (FID) technology to measure very small concentrations of hydrocarbons for walking and mobile leak surveys. It reads from 0-10, 0-50, 0-100, 0-1,000, and 0-10,000 parts per million (PPM) and has a fast response time due to its strong internal sample pump system. When hydrocarbons are present in the sample, ionization occurs. The amount of ionization is electrically measured and converted to a visual indication of hydrocarbon level in PPM via the instrument's meter.

Heath designed the DP 4 to maximize its operational life by utilizing "intelligent" electronics which require fewer adjustments than mechanical component. This results in a more stable instrument with reliable fuel flow rates and calibration settings. The DP 4 automatically stops fuel flow when it is turned "Off", extending the operating supply in the fuel cylinder and eliminating the need for the operator to remove the cylinder after each use.

Automatic monitoring of the input sample flow rate alerts the operator when the sample rate is not within an allowed range using audio and LED alarms. Calibration in the field continues to be simple. The DP 4 can be carried with a shoulder strap or built-in handle or converted for use in a mobile leak unit equipped with an auxiliary sample system.

Features:

➡ Compact & user-friendly

➡ Intelligent electronics

➡ Large backlit display

➡ Range scales from 10 to 10,000 PPM (Optional 100,000 PPM)

➡ Automatic fuel shut-off

➡ Long life membrane switches

➡ Audible and visual alarms

➡ Hot wire ignition

HEATH CONSULTANTS

Your Safety…Our Commitment

9030 Monroe Road, Houston, TX 77061
www.heathus.com   PH: 713.844.1300

SPECIFICATIONS

Instrument Weight:
7 lbs. (3.2 kg)

Telescopic Probe:
Extends from 25 to 41 inches (63 cm to 104 cm); 1 lb. (.45 kg)

Sensitivity:
5-scale operation: 0-10, 50,100, 1000, and 10,000 PPM gas in air
(Optional 100,000 PPM)

Sampling Rate:
2.0 liters per minute, nominal

Fuel Consumption:
30 cc per minute (40% hydrogen and 60% nitrogen)
(High altitude above 3,000 ft - 42% hydrogen and 58% nitrogen)

Meter Readout:
Analog meter with backlight

Alarms:
Pulsating audible and visual alarm for leak
indications: continuous audible for flame-out indication.
Low sample audible alarm and LED indicator

Ignition:
Low voltage hot wire

Batteries:
Nickel-Metal-Hydride (NiMH) rechargeable battery pack.
1.5 AHr capacity at 12 VDC

Battery Charger:
Available in 110 VAC or 220 VAC, 50-60 HZ (must specify) 14 oz,
(0.4 kg)

Fuel Bottle Capacity:
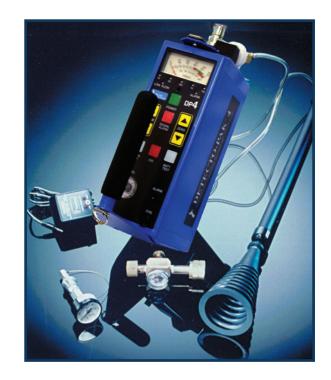Approximately 7 cubic inches each (water capacity)

Daily Operating Life:
Approximately 10 hours with full battery charge and two fuel
bottles

Total Shipping Weight:
29 lbs. (13.2 kg)

Carrying Case Dimensions:
28"L x 19 1/2" W x 9"H(71 cm x 49 cm x 23 cm)

Warranty: One year parts and labor, excluding abuse and
unauthorized modification

ORDERING DETAILS

DP 4 Complete:
P/N 100659-0
P/N 100659-1 for High Altitude
Includes telescopic probe assembly, 2 fuel cylinders, transfiller,
110 VAC battery charger, extra filters, shoulder carrying strap, fuel
bottle o-rings, low pressure gauge, o-ring lubricant, instruction
manual and carrying case.

DP 4 Complete with 220 VAC Battery Charger:
P/N 100659-2
P/N 100659-3 High Altitude

ACCESSORIES
DP 4 Calibration Kit:
P/N 0123309-0 - field kit with 100 PPM methane bottle

Calibration Gas:
P/N 0123071 - 100 PPM methane/balance air, refillable bottle

Mobile Kit:
P/N 102316-0 - mobile kit 4 cones
P/N 102331-0 - mobile kit 6 cones includes sample assembly, tub-
ing, pump with fittings, inverter, mounting bracket and necessary
hardware.

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