D-TEK CO2

Handheld leak detector especially designed to detect carbon dioxide.

- Infrared technology
- Long sensor life: 800 hours; does not weaken over time
- Sensitivity: 6 gm/year
- Equalize to the CO2 in the atmosphere
- Rechargeable NiMH power stick (6,5 hours of operating)

- Quick responses and zeroing
- Consistent, accurate and reliable
- Special developed filter, protecting the sensor
- Hi/Lo sensitivity selector

- Warning low battery
- Warning End-of-life sensor
- Headphone jack
- Ability to run on AC power

SPECIFICATIONS

Minimum sensitivity CO2 (R744)	6 g/yr
Controls	Power: on/off Sensitivity: High/Low
Calibration / Zero setting	Automatic and manual
Weight with battery	0,54 kg
Power source	NiMH-battery, AC adapter
Battery life	6.5 hours
Charging options	220V AC adapter, 1,8m cord 12 V adapter with cigarette lighter plug
Probe	Rubber-coated flexible metal, approx. 43 cm
Charger	Build in
Operating temperature	-25°C to 50°C*
Storage temperature	-10°C to 60°C
Certifications	CE Marking Power Safety and EMC. SAE J1627
Warranty	2 years

ACCESSORIES

716-202-G1	Standard 220 Volt-Model
032-404	Headphones
Replacement parts:	
033-0020	220V adapter and 1,8m cord
703-055-P1	12V power cord with cigarette lighter plug
712-700-G1	NiMH-battery
716-701-G1	Infrared cell for D-TEK CO2
712-707-G1	Filter cartridges (per 5)
712-705-G1	Filter cap
716-702-G1	Storage case, hard plastic

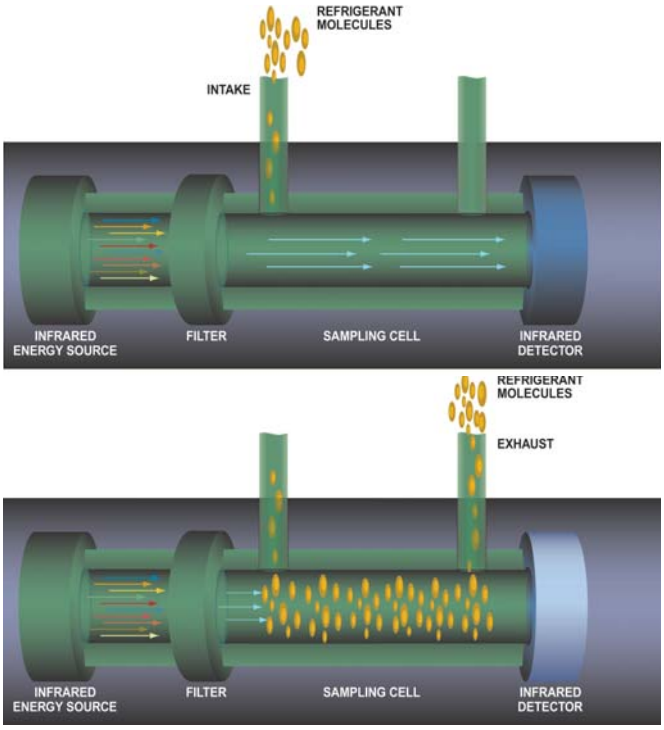
*Can be used within an operating temperature range of -25°C to 0°C. In that case, the batterries will have to be charged more frequently.

- Delivered in a hard storage case including; D-Tek CO2, infraredsensor CO2, NiMH power stick, 12V and 230V adapter, filters and operating manual.

INFICON Sensor Technology

IR-Sensor

Infrared absorption technologie



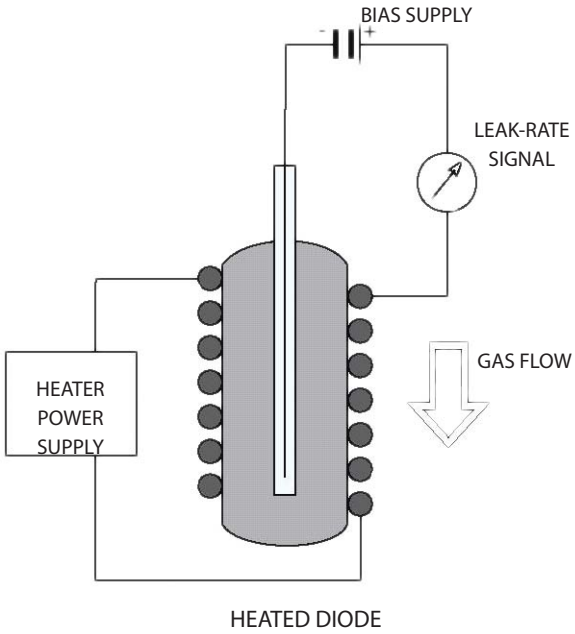
- The INFICON D-TEK Select and D-TEK CO2 use an Infrared absorption filtometer consisting off a sampling cell with an infrared source at one end, an infrared energy detector at the other end, and an optical filter in between them.

- Like the visible light we see, refrigerants have an absorption spectra for electromagnetic infrared energy. This spectra is in the range of 7.5 - 14 micrometers.
- The infrared source creates a high-intensity stream of energy incorporating all wavelengts of infrared energy; this is filtered by the optical filter.
- The optical filter blocks all wavelengts except those that refrigerant absorb.
- The filtered infrared energy strikes the detector and causes it to warm up.
- When refrigerant is drawn through the sampling cell by the internal pump, some of the infrared energy is absorbed by the refrigerant.
- This causes a decrease of the amount of energy reaching the detector and a corresponding drop in the detector's temperature which triggers the D-TEK Select and D-TEK CO2 to alarm.

- Digital IC gives reaction- and recovery times in fractions of a second.
- Extremely high selectivity because of optical filter.
- The sensor will not be harmed by high refrigerant doses nor degrade over time.
- Immediate recovery time after the refrigerant clears the cell.

Heated-diode® Sensor

Elektrochemical technologie



- Patented heated diode sensor offers outstanding sensitivity.
- Resists dirt, water, oil, and other contaminants.
- The INFICON TEK-Mate and Compass Refrigerant Leak Detector incorporate a electrochemical sensor consisting of a ceramic substrate, doped with a reactive element, and maintained at high temperature by a built-in heating element.

- When a halogen-bearing gas contacts with the hot surface, chlorine, bromine or fluorine atoms are separated from the molucule and ionized. This causes an electrical current to flow within the ceramic to a collection electrode at the center.
- Provides similar response to all CFCs, HCFCs en HFCs.