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▶ # PortaSens III

Gas leak detector for exotic gas

Technical specification

Detected gas: Acid gas, Alcohol, AsH3, B2H6, Br2, C2H2, CH3COOH, CH4, Cl2, ClO2, CO, CO2, COCl2, DMA, ETO, F2, GeH4, H2, H2O2, H2S, H2Se, HBr, HC, HCl, HCN, HCOH, HF, I2, NH3, NO, NO2, Nox, O2, O3, PAA, PH3, SiH4, SO2.
Range: depending on the smart sensor used (displayed when starting the device)
Display: color, backlit and touchscreen, graphic LCD
Accuracy: depending on the sensor but generally +/- 5% of the value
Sensitivity: 0.1 to 1% of the sensor's measurement range
Outputs: USB transfer of stored gas values
Recording interval: programmable from 1 to 60 minutes
Recording capacity: 4 Gb (millions of points saved)
Alarms: 3 alarms based on the concentration level (pre-alarm, alarm and an alarm with adjustable level), low flow and low battery alarms are displayed on the LCD screen and accompanied by a beep.
Power supply: rechargeable NiMH D battery approx. 10 hours continuous operation or 2 D alkaline batteries.
Operating temperature: -25 to + 55 ° C
Humidity: 0-95% RH non-condensing
Dimensions: 89 x 229 x 140mm and 3.2kg

Product description

The **PortaSens III** (D16 model) is a portable gas leak detector that allows you to locate leak sources, or simply measure the concentrations of certain gases in the workplace.

Physically similar to its predecessor, the PortaSens II, it offers significant improvements by taking advantage of 15 years of user feedback. The new **PortaSens III** is equipped with a color touch screen, redesigned electronics with a USB interface, new software and new hydrocarbon and CO2 sensors.

Designed for ease of use in the field, the leak detector contains an internal sampling pump and flexible probe to aid in finding and locating gas leaks.

The **PortaSens III** is able to detect and measure different types of gas simply by inserting the appropriate target gas sensor. There are 62 sensors for 38 gases detected.

Sensors can be replaced very quickly and easily, without needing to be calibrated when replacing one sensor with another. The gas sensors are said to be "intelligent" and have a memory with all the characteristics relating to the targeted gas (scale, alarms, calibration, etc.).

When the gas sensor is installed in the **PortaSens III**, it immediately loads all the information into the device's built-in microprocessor, allowing it to be used without having to make any adjustments. Each smart sensor comes with a factory calibration certificate.

The **PortaSens III** is mainly used for leaks detection in gas storage areas, around gas pipes, or even before entering confined spaces. Its ability to detect more than 30 different gases by simply changing the sensor makes it an essential part of gas detection.

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Code	Gas and measure range
00-1045	Acetic acid (AcOH) 100/500 ppm (100 ppm standard)
00-1057	Acetylene (C2H2), 0-200 / 2000 ppm (500 ppm standard)
00-1038	Acid gases, 0-10 / 200 ppm (20 ppm standard)
00-1043	Alcohol, 0-50 / 500 ppm (200 ppm standard)
00-1044	Alcohol, 0-500 / 2000 ppm (2000 ppm standard)
00-1010	Ammonia (NH3), 0-50 / 500 ppm (200 ppm standard)
00-1011	Ammonia (NH3), 0-500 / 2000 ppm (1000 ppm standard)
00-1025	Arsine (AsH3), 0-10 / 200 ppm (10 ppm standard)
00-1024	Arsine (AsH3), 0-500 / 2000 ppb (1000 ppb standard)
00-1000	Bromine (Br2), 0-1 / 5 ppm (2 ppm standard)
00-1001	Bromine (Br2), 0-5 / 200 (20 ppm standard)
00-1886	Carbon dioxide IR (CO2), 0-1 / 5% vol. (1% standard)
00-1012	Carbon monoxide (CO), 0-50 / 1000 ppm (200 ppm standard)
00-1002	Chlorine (Cl2), 0-1 / 5 ppm (2 ppm standard)
00-1003	Chlorine (Cl2), 0-5 / 200 (20 ppm standard)
00-1004	Chlorine dioxide (ClO2), 0-1 / 5 ppm (2 ppm standard)
00-1359	Chlorine dioxide (ClO2), 0-200 / 1000 ppm (1000 ppm standard)
00-1005	Chlorine dioxide (ClO2), 0-5 / 200 (20 ppm standard)
00-1425	Chlorine dioxide (ClO2), 1/5 ppm (low concentration Cl2)
00-1018	Cyanidric acid (HCN), 0-10 / 200 ppm (20 ppm standard)
00-1027	Diborane (B2H6), 0-10 / 200 ppm (10 ppm standard)
00-1026	Diborane (B2H6), 0-500 / 2000 ppb (1000 ppb standard)
00-1450	Dimethylamine (DMA), 100/200 ppm (100 ppm standard)
00-1039	Ethylene oxide (C2H4O), 0-20 / 200 ppm (20 ppm standard)
00-1006	Fluorine (F2), 0-1 / 5 ppm (2 ppm standard)
00-1007	Fluorine (F2), 0-5 / 200 (20 ppm standard)
00-1040	Formaldehyde (CH2O), 0-20 / 200 ppm (20 ppm standard)
00-1349	Formaldehyde (CH2O), 0-500 / 2000 ppm (1000 ppm standard)
00-1029	Germanium tetrahydride (GeH4), 0-10 / 200 ppm (10 ppm standard)
00-1028	Germanium tetrahydride (GeH4), 0-500 / 2000 ppb (1000 ppb standard)
00-1516	Hydrocarbons (set according to the gas chosen)

Code	Gas and measure range
00-1013	Hydrogen (H2), 0-1 / 10% (4% standard)
00-1041	Hydrogen (H2), 0-500 / 2000 ppm (2000 ppm standard)
00-1455	Hydrogen bromide (HBr), 10/200 ppm (20 ppm standard)
00-1017	Hydrogen chloride (HCl), 0-10 / 200 ppm (20 ppm standard)
00-1019	Hydrogen fluoride (HF), 0-10 / 200 ppm (20 ppm standard)
00-1042	Hydrogen peroxide (H2O2), 0-10 / 100 ppm (20 ppm standard)
00-1169	Hydrogen peroxide (H2O2), 0-200 / 2000 ppm (1000 ppm standard)
00-1020	Hydrogen sulfide (H2S), 0-10 / 200 ppm (20 ppm standard)
00-1469	Hydrogen sulfide (H2S), 200/1000 ppm (500 ppm standard)
00-1036	Iodine (I2), 0-1 / 5 ppm (2 ppm standard)
00-1037	Iodine (I2), 0-5 / 200 (20 ppm standard)
00-1883	Methane IR (CH4), 0-20 / 100% LEL
00-1021	Nitric oxide (NO), 0-50 / 500 ppm (200 ppm standard)
00-1022	Nitrogen dioxide (NO2), 0-10 / 200 (20 ppm standard)
00-1181	NOx, 0-50 / 500 ppm (50 ppm standard)
00-1014	Oxygen (O2), 0-5 / 25% (25% standard)
00-1008	Ozone (O3), 0-1 / 5 ppm (2 ppm standard)
00-1358	Ozone (O3), 0-200 / 1000 ppm (1000 ppm standard)
00-1009	Ozone (O3), 0-5 / 200 (20 ppm standard)
00-1163	Ozone (O3), 0-500 / 2000 ppb (1000 ppb standard)
00-1704	Peracetic acid, vapor (PAA), 1/5 ppm (2 ppm standard)
00-1705	Peracetic acid, vapor (PAA), 10/100 ppm (20 ppm standard)
00-1015	Phosgene (COCl2), 0-1 / 5 ppm (2 ppm standard)
00-1016	Phosgene (COCl2), 0-5 / 100 (100 ppm standard)
00-1033	Phosphine (PH3), 0-10 / 200 ppm (10 ppm standard)
00-1034	Phosphine (PH3), 0-200 / 2000 ppm (1000 ppm standard)
00-1032	Phosphine (PH3), 0-500 / 2000 ppb (1000 ppb standard)
00-1030	Selenated hydrogen (H2Se), 0-500 / 2000 ppb (1000 ppb standard)
00-1031	Selenium hydrogen (H2Se), 0-10 / 200 ppm (10 ppm standard)
00-1035	Silane (SiH4), 0-10 / 200 ppm (10 ppm standard)
00-1023	Sulfur dioxide (SO2), 0-10 / 500 ppm (20 ppm standard)

The **PortaSens III** comes with:

- Spare filters
- 10" teflon lined sampling wand
- Flowmeter
- USB cable
- Spare NiMH "D" cell battery
- NiMH battery charger
- Sensor keeper
- Calibration "T" fitting