



PortaSens III GAS LEAK DETECTOR

PortaSens III

MODEL D16 GAS DETECTOR

Locating the source of gas leaks can be a challenge, especially in plant areas with multiple potential leak sources. Ammonia refrigeration piping, ozone generator skids, and hazardous gas piping systems are just a few of the applications where identifying exact leak sites is difficult.

ATI's new PortaSens III portable leak detector (Model D16) is ideal for locating leak sources or simply for measuring gas concentrations in the workplace. With a built-in sampling pump and inlet wand, sample is drawn from precise locations where leaks may occur. Areas around valve packing, flanges, compression fittings and other system components are easily checked to find the higher gas levels that exist near the leak site.

The PortaSens III is physically similar to its predecessor, the PortaSens II which has been in service for the past 15 years. The internals of the instrument have been completely redesigned with a modern USB computer interface, a color touch-screen display, and improved pump control. As with the original, the D16 detector has the ability to measure a wide variety of gases by simply inserting the appropriate sensor for that gas. The D16 can use any of over 60 different sensor modules, providing nearly unmatched flexibility. Sensors can be changed quickly and easily without the need for calibration.

Sensors used in the PortaSens III are ATI's H-Series smart sensor modules. Each sensor module is actually a sensor, amplifier, and memory module in one compact package. Because of this design, sensor modules can be calibrated independently and simply plugged into any detector for immediate use.

When installed in a detector, calibration data is loaded into the microprocessor so that no adjustments are needed. The result is that a detector can, for example, go from phosgene measurement to ammonia measurement in less than one minute.

FEATURES

- Interchangeable "Smart Sensors" for gas flexibility
- NEW IR sensors for methane & carbon dioxide
- Internal sample pump and external sampling wand
- One-hand pistol grip design
- NiMH "D" cell rechargeable battery or alkaline cell
- Easy to read back-lit color graphics LCD
- Instantaneous and timed-sampling modes of operation
- Visual and Audible alarms
- Internal 4 Gb data-logger with USB output





SMART SENSORS

The basic PortaSens II detector does not include sensor modules. Because the D16 is designed to accept any ATI smart sensor module, you must select one or more sensors from the list below. Each sensor module is factory calibrated at the time of shipment and is ready to use by plugging it into the receptacle in the D16 manifold. Each module can be used for logging data over minimum and maximum ranges indicated.

AVAILABLE SENSORS

00-1000 Br₂, 0-1/5 ppm

00-1001 Br₂, 0-5/200 ppm

00-1002 Cl₂, 0-1/5 ppm

00-1003 Cl₂, 0-5/200 ppm

00-1004 ClO₂, 0-1/5 ppm

00-1005 ClO₂, 0-5/200 ppm

00-1359 ClO₂, 200/1000 ppm

00-1425 ClO₂, 0-1/5 ppm (low Cl₂)

00-1006 F₂, 0-1/5 ppm

00-1007 F₂, 0-5/200

00-1008 O₃, 0-1/5 ppm

00-1009 O₃, 0-5/200 ppm

00-1358 O₃, 200/1000 ppm

00-1163 O₃, 500/2000 ppb

00-1010 NH₃, 0-50/500 ppm

00-1011 NH₃, 0-500/2000 ppm

00-1012 CO, 0-50/1000 ppm

00-1013 H₂, 0-1/10%

00-1041 H₂, 0-500/2000 ppm

00-1014 O₂, 0-5/25%

00-1015 COCl₂, 0-1/5 ppm

00-1016 COCl₂, 0-5/100 ppm

00-1017 HCl, 0-10/200 ppm

00-1018 HCN, 0-10/200 ppm

00-1019 HF, 0-10/200 ppm

00-1020 H₂S, 0-10/200 ppm

00-1469 H₂S, 200/1000 ppm

00-1021 NO, 0-50/500 ppm

00-1022 NO₂, 0-10/200 ppm

00-1023 SO₂, 0-10/500 ppm

00-1024 AsH₃, 0-500/2000 ppb

00-1025 AsH₃, 0-10/200 ppm

00-1026 B₂H₆, 0-500/2000 ppb

00-1027 B₂H₆, 0-10/200 ppm

00-1028 GeH₄, 0-500/2000 ppb

00-1029 GeH₄, 0-10/200 ppm

00-1030 H₂Se, 0-500/2000 ppb

00-1031 H₂Se, 0-10/200 ppm

00-1032 PH₃, 0-500/2000 ppb

00-1033 PH₃, 0-10/200 ppm

00-1034 PH₃, 0-200/2000 ppm

00-1035 SiH₄, 0-10/200 ppm

00-1036 I₂, 0-1/5 ppm

00-1037 I₂, 0-5/200 ppm

00-1038 Acid Gas, 0-10/200 ppm

00-1039 ETO, 0-20/200 ppm

00-1040 HCOH, 0-20/200 ppm

00-1349 HCOH, 500/2000 ppm

00-1042 H₂O₂, 0-10/100 ppm

00-1169 H₂O₂, 200/2000 ppm

00-1043 Alcohol, 0-50/500 ppm

00-1044 Alcohol, 0-500/2000 ppm

00-1057 C₂H₂, 0-200/2000 ppm

00-1181 NO_x, 0-50/500 ppm

00-1450 DMA, 100/200 ppm

00-1455 HBr, 10/200 ppm

00-1516 HC Sensor – Consult Factory

00-1045 CH₃COOH, 100/500 ppm

00-1704 PAA Vapor, 1/5 ppm

00-1705 PAA Vapor, 10/100 ppm

00-1883 IR CH₄, 0-20/100% LEL

00-1886 IR CO₂, 0-0.2/1.5%



Notes:

1. X/XX for each sensor indicates minimum and maximum data logging ranges for that sensor.
2. 00-1883 LEL CH₄ sensor also responds to many other hydrocarbons. Response to other hydrocarbons is not 1:1 with CH₄.

PortaSens III Gas Detectors are supplied in a padded carrying case for easy storage and transport. An extra battery is provided plus space for up to two sensor keepers which means up to 8 extra sensors ready for immediate use.




The following components are standard.

- PortaSens III Gas Detector
- Spare Filters
- 10" Teflon Lined Sampling Wand
- Flowmeter
- USB Cable
- Spare NiMH "D" Cell Battery
- NiMH Battery Charger
- Sensor Keeper
- Calibration "T" Fitting

ORDERING INFORMATION

#00-1876 MODEL D16 PortaSens III

SPECIFICATIONS

Range:	Dependent on sensor module used
Display:	Backlit, touch-sensitive color graphics LCD
Accuracy:	Sensor dependent but generally $\pm 5\%$ of value (limited by cal. gas)
Sensitivity:	Typically 0.1-1% of sensor module range
Output:	USB transfer of stored gas values
Memory:	4 Gb (millions of data points)
Storage Interval:	Programmable from 1 minute to 60 minutes
CE	2014/35/EU – Low voltage directive 2014/30/EU – Electromagnetic compatibility
Alarms:	Three concentration alarms (caution, warning, and danger with adjustable setpoints). Low flow and low battery alarms displayed on LCD & indicated by audible beeper
Power:	Rechargeable NiMH D cell battery runs about 10 hours continuously. Two D cells supplied with unit. Alkaline D cell battery may also be used.
Charger:	2-Cell Charger, 100-240 VAC input
Operating Temp.:	-25° to +55°C
Humidity:	0-95% Non-condensing
Detector Material:	Glass Filled Polycarbonate
Size:	3.5"(W) x 9"(H) x 5.5"(D) 89mm x 229mm x 140mm
Shipping Weight :	7 lbs. (3.2 Kg.)
Environmental	 RoHS Compliant

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