

Porta Sens 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

AVAILABLE SENSONS
00-1000 Br ₂ , 0-1/5 ppm
00-1001 Br ₂ , 0-5/200 ppm
00-1002 Cl ₂ , 0-1/5 ppm
00-1003 Cl ₂ , 0-5/200 ppm
00-1004 ClO ₂ , 0-1/5 ppm
00-1005 CIO ₂ , 0-5/200 ppm
00-1359 CIO ₂ , 200/1000 ppm
00-1425 CIO ₂ , 0-1/5 ppm (low Cl ₂)
00-1006 F ₂ , 0-1/5 ppm
00-1007 F ₂ , 0-5/200
00-1008 O ₃ , 0-1/5 ppm
00-1009 O ₃ , 0-5/200 ppm
00-1358 O ₃ , 200/1000 ppm
00-1163 O ₃ , 500/2000 ppb
00-1010 NH ₃ , 0-50/500 ppm
00-1011 NH ₃ , 0-500/2000 ppm
00-1012 CO, 0-50/1000 ppm
00-1013 H ₂ , 0-1/10%
00-1041 H ₂ , 0-500/2000 ppm
00-1014 O ₂ , 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 H ₂ S, 0-10/200 ppm
00-1469 H ₂ S, 200/1000 ppm
00-1021 NO, 0-50/500 ppm
00-1022 NO ₂ , 0-10/200 ppm
00-1023 SO ₂ , 0-10/500 ppm
00-1024 AsH ₃ , 0-500/2000 ppb

00-1025	AsH ₃ , 0-10/200 ppm			
00-1026	B ₂ H ₆ , 0-500/2000 ppb			
00-1027	B ₂ H ₆ , 0-10/200 ppm			
00-1028	GeH ₄ , 0-500/2000 ppb			
00-1029	GeH ₄ , 0-10/200 ppm			
00-1030	H₂Se, 0-500/2000 ppb			
00-1031	H₂Se, 0-10/200 ppm			
00-1032	PH ₃ , 0-500/2000 ppb			
00-1033	PH ₃ , 0-10/200 ppm			
00-1034	PH ₃ , 0-200/2000 ppm			
00-1035	SiH ₄ , 0-10/200 ppm			
00-1036	I ₂ , 0-1/5 ppm			
00-1037	I ₂ , 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	H ₂ O ₂ , 0-10/100 ppm			
00-1169	H ₂ O ₂ , 200/2000 ppm			
00-1043	Alcohol, 0-50/500 ppm			
00-1044	Alcohol, 0-500/2000 ppm			
00-1057	C ₂ H ₂ , 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 CH ₄ , 0-20/100% LEL			
00-1886	IR CO ₂ , 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
- Sensor Keeper
- Calibration "T" Fitting

ORDERING INFORMATION

#00-1876 MODEL D16 PortaSens III

#28-0039 NiMH Battery Charger for 2 "D" cells (Charger does not fit inside PortaSens III case)

SPECIFICATIONS

SPECIFICAL	IONS
Range:	Dependent on sensor module used
Display:	Backlit, touch-sensitive color graphics LCD
Accuracy:	Sensor dependent but generally ± 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
C€	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:	Optional charger available
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	Rouse Compliant

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