SPECTRUM SP S

WITH INTEGRAL PUMP FOR IMPROVED MONITORING PERFORMANCE

FEATURES

- Built-in pump
- **Compact design**
- **Backlit digital display**
- "Intelli-Cal" calibration procedure
- **Dual-level alarms**
- **Password-protected** maintenance functions
- Audio and visual alarms
- Low-battery alarm



SPECIFICATIONS

Size:	5 x 4.75 x 2 inches (127 x 120 x 50 mm)
Weight:	13 ounces (370g)
Enclosure:	ABS plastic
Power:	Rechargeable 4.8V NiMH battery
Display:	8 Character, high contrast dot matrix LCD with backlight
Sensor:	Electrochemical
Alarm Points:	Two (high/low), audio & visual
Audible Alarm:	75 dB at 10 cm, confidence chirp every 30 seconds
Visual Alarm:	Red LED
Temp. Range:	14 to 113° F (-10 to +45° C)

Gas detectors are designed for monitoring the environment by one of two methods, diffusion or sample draw. In the case of diffusion, natural forces are relied upon to cause the ambient air to interact with the gas sensor. As an alternative, the air sample can be drawn to the sensor using either a hand-operated, squeeze-bulb aspirator or a motorized sample pump. Obviously, the motorized pump is much more convenient and easier to use, and it can provide a continuous air sample to the sensor at a constant flow rate.

Sample draw reduces gas response time compared to natural diffusion. and it facilitates testing of valves, pipe connections, etc. for leaks, and enables the monitoring of remote areas or enclosed vessels where nonambient conditions may exist, such as, temperature extremes.

A properly designed sample draw system can improve the monitoring performance for most gases, particularly acid gases like Cl₂ and HCl. It also reduces the response times for gases to be detected at sub-ppm concentrations, such as, AsH₃. And, most important, sample draw is required for the detection of some gases, most notably, HF and O_3 . It is for these reasons that the SPECTRUM SP Series was developed.



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ORDERING INFORMATION

Instrument (includes charger and manual) Part Numbers & Specifications

Part No.	Gas Detected	Range	LDL (1)	Alarm 1 (2)	Alarm 2 (3)	Life (4)	Cal/Test
04818-0100	Chlorine, Cl ₂	10.0 ppm	0.5 ppm	1 ppm	5 ppm	1-2 years	5
04818-0200	Hydrogen sulfide, H ₂ S	200 ppm	5 ppm	10 ppm	25 ppm	2-3 years	5
04818-0400	Hydrogen chloride, HCl	20.0 ppm	1 ppm	5 ppm	10 ppm	1 year	5
04818-0500	Sulfur dioxide, SO ₂	20.0 ppm	1 ppm	5 ppm	10 ppm	2-3 year	5
04818-0700	Hydrogen fluoride, HF	10.0 ppm	1 ppm	3 ppm	6 ppm	1 year	6
04818-0800	Ozone, O ₃	0.99 ppm	0.05 ppm	0.10 ppm	0.20 ppm	1 year	7
04818-1200	Carbon monoxide, CO	1000 ppm	5 ppm	35 ppm	200 ppm	2-3 years	5
04818-1500	Hydrogen, H ₂	1000 ppm	30 ppm	200 ppm	750 ppm	2-3 years	5
04818-1700	Nitrogen dioxide, NO ₂	10.0 ppm	1.5 ppm	3 ppm	5 ppm	1-2 years	5
04818-1750	Nitric oxide, NO	100 ppm	5 ppm	25 ppm	50 ppm	1-2 years	5
04818-2400	Ammonia, NH ₃	100 ppm	7 ppm	25 ppm	50 ppm	1 year	5
04818-4001	Arsine, AsH ₃	0.99 ppm	0.05 ppm	0.05 ppm	0.10 ppm	1 year	5
04818-4003	Silane, SiH ₄	30 ppm	4 ppm	5 ppm	10 ppm	1 year	5

(1) Lower Detectable Limit calculated from baseline noise level, thermal drift and interference data used to derive zero point deviation estimates

(2) Alarm adjustable, audio alarm acknowledgeable (can be silenced)

(3) Audio alarm reactivation, not acknowledgeable (cannot be silenced)

(4) Typical sensor life

(5) Gas cylinder and regulator available for calibration

(6) See HF permeation tube test kit below

(7) See O₃ generator test kit below

CALIBRATION / TEST EQUIPMENT, REPLACEMENT PARTS & ACCESSORIES*

Description

HF Perm Tube Test Kit, with manual O₃ Generator Test Kit, 110 Vac, with manual O₃ Generator Test Kit, 220 Vac, with manual Gas Reg., flow demand, for 17L cyl. Gas Reg., flow demand, for 34L cyl. Connector Tube, for Gas Reg./Sampling Probe 03700-033

Part No. 04567-0702 04056-0800-4 04056-0800-5 03510-001 03510-002

Description

Case, Gas Reg. and up to two 17 or 34L cyl. 73083-000 Sampling Probe, 4' tubing w/10" rigid probe 03700-032 Battery for SPECTRUM SP, 4.8V. NIMH 67019-027 Charger for SPECTRUM SP, 110 Vac Charger for SPECTRUM SP, 220 Vac 67051-006 67051-010 Manual for SPECTRUM SP 80012-018

*See product price list for ordering information on calibration gas cylinders, related equipment and replacement sensors



Ozone Generator Test Kit Accessories not shown







Part No.

HF Permeation Test Kit

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

