



SoundPatrol DP Series SOUND LEVEL METERS

For Noise Ordinance Enforcement

The Issue

Enforcement of local noise ordinances requires field testing of noise levels and documentation of measurement results, particularly in the event a citation is issued. The need exists for a simple system that requires minimal training to be easily deployed in the field by law enforcement personnel. The system must provide credible data and convenient methods for field calibration and printing of test results in the field.

The Solution

Quest Technologies has created the SoundPatrol DP 1200 (Class 1) and SoundPatrol DP 2200 (Class 2) integrating sound level meters with digital printing capabilities especially for this application. Both meters are rugged, high-quality devices meeting all the applicable accuracy and performance requirements for sound level meters as defined by ANSI S1.4 and S1.43, IEC 61672, 651 and 804.

Users will quickly learn to confidently perform a pre-test field calibration, take a valid noise sample, perform a post-test calibration check and generate complete printed results using the system's convenient belt-worn portable printer.



Ordering Information

PART NUMBER	DESCRIPTION
SPDP-1200	SoundPatrol DP 1200 Class 1 Noise Ordinance Enforcement Meter. Consists of SoundPatrol meter, windscreen, instruction manual and factory calibration certificate all packaged in a single convenient storage case.
SPDP-1200-10	Sames as SP-DP-1200, plus QC-10 Acoustical Field Calibrator.
SPDP-2200	SoundPatrol DP 2200 Class 2 Integrating/Printing Noise Ordinance Enforcement System. Consists of SoundPatrol meter, windscreen, QC-10 acoustical field calibrator and microphone adapter, and factory calibration certificate all packaged in a single convenient storage case.
SPDP-2200-10	Same as SPDP-2200, plus QC-10 Acoustical Field Calibrator.
SPDP-PRINTER	Portable rechargeable battery-operated thermal printer with belt clip, AC adapter/charger, printer cable, roll of paper and instruction manual.

Technical Specifications

SoundPatrol DP Meter	
Measurement Range:	30 to 140 dBA 40 to 140 dBC 43 to 143 dBpk
Microphone:	Size: 0.5" (13.5 mm) Type: Electret
Preamp:	Detachable: Optional Maximum Cable Length: 50 Ft. (15 m)
Internal Filters:	A,C,Z
Response Time Constants:	F, S, I, P
Exchange Rates:	3 or 5
Outputs:	AC/DC with RS-232C Serial Printer Port
Temperature Range:	Operating: 14°F to 122°F (-10°C to 50°C) Storage: -4°F to 140°F (-20°C to 60°C)
Batteries:	9V Alkaline
Battery Life:	25-30 hrs.
Size:	Model 1200: 2.8"x9.7"x1.3" (7x23x3.3cm) Model 2200: 2.8"x7.0"x1.3" (7x18x3.3cm)
Weight:	Model 1200: 10.8 oz. (306 g) Model 2200: 10.3 oz. (293 g)
Standards:	ANSI S1.43-1997 (R1997), IEC60651, IEC 60804, IEC61672, CE Mark, Model 1200: Class 1; Model 2200: Class 2
Report Types:	Enforcement Report; Continuous Report
QC-10 CALIBRATOR	
Output Amplitude:	114 dB sound pressure level
Output Frequency:	1,000 hertz.
Accuracy:	+/- 0/3 dB @ 20° C, 760 mm Hg
Power Source:	Disposable 9-volt alkaline battery
Typical Battery Life:	>25 hours
Size & Weight:	4.1" (10.4 cm) long, 2.4" (6 cm) dia., 12 oz (0.35 kg)
Operating Temp & RH:	-10 to 50°C, 5 to 95% RH
Storage Temp & RH:	-40 to 65°C (battery removed), 5 to 95% RH
PORTABLE PRINTER	
Print Method:	Thermal
Format:	24-column
Recommended Paper:	PD160R-N (Oji Paper) or AFP-235 (Mitsubishi Paper)
Interface:	RS-232C
Power Source:	Internal rechargeable 3.7VDC lithium ion battery.
Battery Life:	50m printing at 12.5% printing ratio
AC Adapter/Charger:	100VAC to 240VAC adapter
Size & Weight:	84 x 136 x 30 mm; 280g (paper & battery included)
Operating Temp & RH:	-5 to 50°C, 20 to 85% RH, non-condensing
Storage Temp & RH:	-20 to 60°C, 5 to 90% RH, non-condensing



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