Noise sensor



- Continuous measurement (24h / 7d) with class 1 accuracy according to IEC 61672-1
- Measurement of LAeq with configurable integration time between 1 s and 1 min
- 4...20 mA output
- Connection to LSI LASTEM or third-party data acquisition systems
- Indoor and outdoor use with IP65 protection. For IEQ (Indoor Environmental Quality) measurements or environmental noise outside
- Powered by power grid 230 V, 12 VDC (Solar panels, external batteries)
- Accessories for fixing to pole or indoor stand and cables for signal and power supply

The PRSLA1000 sensor measures, according to IEC 61672-1 class 1, the equivalent continuous sound level with A frequency weighting in a single range of 35-120 dBA. The integration time is configurable between 1 s and 1 min. The measurement is continuous 24 hours/7 days a week. This sensor finds its typical use in combination with an LSI LASTEM acquisition system for indoor measurements (Noise module in IEQ application) and outdoor (environmental noise measurements) also in combination with meteorological sensors.
The PRSLA1000 brings together in a small sized single piece of equipment, the accuracy of a Class 1 sound level meter, with high precision and reliability even outdoors thanks to the IP65 degree of protection and protection against rain, snow, wind, dust, birds. Integration with LSI LASTEM data loggers is achieved with its 4...20 mA output. The PRSLA1000 requires minimal annual maintenance and can be verified with an acoustic calibrator (IEC 60942) BSC010 model.

Technical specifications

PN	PRSLA1000	
Measurement	Measured variables	Equivalent continuous sound level
	Frequency weighting	A
	Resolution	0.1 dB
	Accuracy according to IEC 61672-1	Class 1
	Measurement single range	28...120 dBA
	Linearity range at 1kHz	35...120 dBA
	Acoustic verification	with acoustic calibrator (IEC 60942)
Microphone	Type	½" condenser microphone
	Polarization	0 V
Connectivity	Configuration	USB rev. 2.0 (type B)
	Output	4...20 mA

General information	Supply	• 100/240 V~ 0.6 A | 50/60 Hz • 12 V DC
	Typical power consumption	1 W
	Protection grade	IP65
	Cable	Free wires, L=3 m
	Operational limits	-10...50 °C
	Dimensions	395 x 120 x 91 mm
	Weight	960 g
	Compatibility	Alpha-Log, E-Log

Accessories

	BVA327	Mounting accessory to fix PRSLA1000 on BVA320 stand
	BCS010	Class 1 calibrator





Outdoor installation on pole with special mounting plate, included with the sensor



Indoor installation on tripod and stand with mounting accessory, available to order separately

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