SFON – Phonometric sensor for noise measurement (Rev. 2 270121)

Description

The SFON sound level sensor is a detector for measuring noise.
The sensor is used to provide a very useful noise indication for applications where a certifiable measurement is not required but simply a plausible value to assess exceedances and report any alarms.

The sensor is applied indoors (e.g. workplaces, assembly lines, ...) or in the open environment (construction sites, road works, airports, etc ...) and provides a continuous measurement available on 4-20mA analog output .

Main applications

- Construction and road construction sites
- Industrial areas
- Urban centers
- Port and airport areas

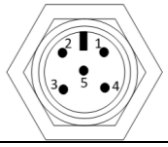
Technical data

Model	SFON-I
Transducer	Condenser microphone
Measurement range	30…120dB
Frequency range	20Hz…12.5 kHz
Accuracy	±0.5 dB (94dB a 1 KHz)
Resolution	0.1 dB
Response time	≤ 3s
Output	4…20mA
Power	12…24Vdc (typ.12Vdc)
Consumption	1.2W
Load resistance	100Ohm@12Vdc (<600 Ohm@24Vdc)
Working conditions	-20…+60°C, 10…90%
Materials	Painted and anodized aluminum
Protection degree	IP67
Overall dim. and weight	Sensor body: 190 x 140 x 120mm (bracket excluded), weight: 1000g
Connector	Plug IP68
Mounting	Universal bracket for fastening on ø25…42mm horizontal or vertical pipes

Accessories

Cable	Shielded for outdoor. Available lengths: 4, 12, 22m (others upon request)
Cod. CSxx (xx=meters of cable)	Sensor cable with IP68 connector (sensor side) and open wires (datalogger side)
Cod. CSDxx	Sensor- Geoves' datalogger cable with IP68 connector (sensor side) and terminal (datalogger side)

Electrical connection

Model	**SFON-I** (Output in **current**)	
Output	**4…20mA** (where 4mA=30dB; 20mA= 120dB)	
Load resistive shunt	25…440Ω (tip.100Ω)	
Connector IP68 on the sensor 	Pin1: Iout+ Pin2: Iout- Pin3: Pin4: Gnd Pin5: +Vdc (12…24Vdc)	

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