



Noise sensing kit

For noise level monitoring

Sound emissions are not only annoying, but also pose a **health risk** (they can cause sleep dysfunction, stress and hypertension, for example), and may even cause irreversible damage in humans. It is therefore essential to **control the noise level** to which people are exposed in all environments that may pose a risk.

Examples of **risk environments** are those with machinery operating in industry, construction and mining; and these are dangerous not only for workers but also for neighbours and bystanders. Other examples are any urban area exposed to vehicle traffic, aircraft at or near airports and railway lines.

There are several **regulations** that determine the maximum levels allowed in work environments, built-up areas or wildlife zones, for example. To ensure health and safety compliance with legal limits, noise measurement equipment must be accurate, reliable and consistent over time.

NIHON KASETSU has developed such a device for measuring noise accurately and reliably, while complying with the **European standard IEC61672** on acoustic measurement devices. Its extreme simplicity and robustness make it ideal for measuring noise in any built-up area or construction, mining or industrial environment, as well as under the most adverse weather conditions.

Main features

The most accurate acoustic measurement technology integrated in a robust and compact design:

- **Class 1 or Class 2**
Frequency range and base noise can be adjusted, along with different microphones, according to a Class 1 or Class 2 calibration.
- **Frequency weighting dB(A) and dB(Z)**
The output can be easily configured as an AC or DC signal (25mV/dB) with the A or Z weighting option.
- **All weather design**
Can withstand the harshest environmental conditions. IP-65 housing and microphone protected against the wind, rain or snow.
- **Complies with IEC61672 standard**
The noiseLc2 is calibrated and ready to measure in an industrial environment. It fulfils all the requirements indicated by the European standard IEC61672 for acoustic measurement devices.





Specifications

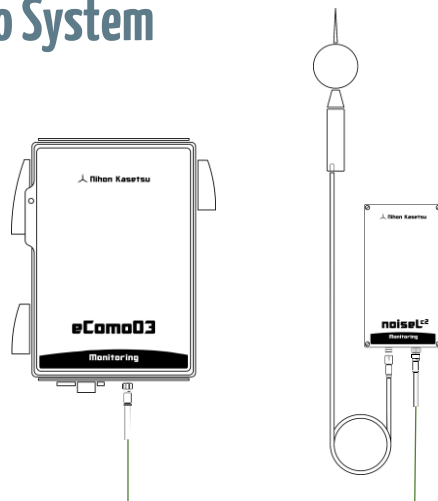
noiseLc1 / noiseLc2

POWER SUPPLY		
Maximum consumption power	6	W
Voltage	18 ÷ 30	VDC

OUTPUT		
Number of outputs	1	
Weighting	A / Z	
Response	Slow / Fast	
Range	54 ÷ 134	dBs
Dynamic	60	dBs
Precision	0,025	mV/ dB
	1/10	mA /dBs
Type	Voltage	0 ÷ 1500 mVDC
	Current loop	4 ÷ 10 mAADC

KEY SPECIFICATIONS		
Microphone	Class 1/ Class2	
Cable microphone (standard)	10	m
Temperature range	-30 ÷ 40	°C
Pressure range	80 ÷ 120	kPa
Humidity range	15 ÷ 85	% rh continuous
IP	65	
Connector	Tajimi 8-pin male	
Dimensions	120 x 220 x 90	mm
Weight	1,5	Kg

eComo System

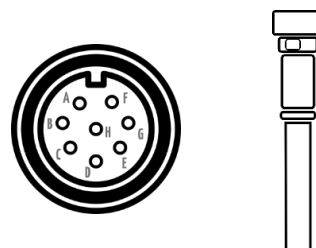


noiseL series are designed to reach its highest performance with eComo03 and the rest of NIHON KASETSU Monitoring product range.



Connectors

Output connector



Pin connections:

- A. 24V DC
- F. GND
- G. Analog pin (+)
- H. Analog pin (-)



Outdoor protection

Electret microphone

Preamplifier



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