

Stand-Alone Environmental Module

Fast Detection and Monitoring of Environmental and Ambient Parameters

With the stand-alone environmental measuring module – uSense from fionec, different environmental parameters such as pressure, temperature and humidity, but also rotation and acceleration, as well as magnetic field and IAQ (Index for Air Quality) can be easily measured and monitored. The environmental measuring module is therefore ideal for monitoring sensitive devices, machines and working environments, e.g. in the measuring room, laboratory or in production. Measured values can be recorded flexibly at any desired location.. Via LAN or optionally WLAN, fast browser-based access and intuitive operation of the module is possible via any internet-capable end devices such as PCs, mobile phones and tablets.

Live-Display

The measured data are transferred to the registered receivers and are graphically available via a live display. With colour-coded, individually configurable limit ranges, critical values and outliers can be quickly detected visually.

Warning of critical values

As soon as the sensors measure values that are outside the set limits, the module warns online and additionally via an LED ring in the front of the housing. Corresponding colour changes indicate the critical values. Warnings can also be sent directly by e-mail to configurable recipients when the limits are exceeded.

Reporting and analysis

The measurements are automatically saved and can be viewed directly within the application and can easily be exported. The free DataViewer Basic software from fionec can be used for evaluation and analysis. In addition, import into programmes such as Excel, Origin, Matlab is also possible.



Technical Data

Features and Benefits

- ✓ Live measurement of environmental and ambient parameters
- ✓ Stand-alone solution
- ✓ Fast access and intuitive operation via LAN, optionally WLAN
- ✓ Live display of measured values
- ✓ Coloured display of critical ranges
- ✓ Individual configuration of limits for all sensor values
- ✓ Visual warning of critical measured values via LED colour changes
- ✓ Warnings are sent directly by e-mail
- ✓ Easy storage of measured values
- ✓ Import and analysis of data in e.g. Excel, Origin, Matlab

Language

- ✓ German
- ✓ English

Dimensions

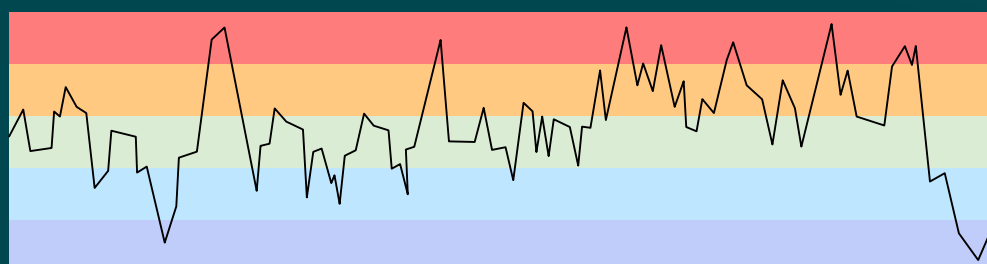
- ✓ Size (w x h x d):
116 x 44 x 126 mm
- ✓ Weight: 0.6 kg

Parameter		Measuring range	Resolution	Optional
	Rotation*	± 2000 °/s	± 0.5 (initial) ± 0.005 %/°C	
	Acceleration*	± 16 g	± 0.5 (initial) ± 0.005 %/°C	
	Temperature**	- 20°C up to 120°C	± 0.5 °C	✓
	Pressure	300 hPa up to 1250 hPa	± 0.016 hPa	✓
	Humidity	0 % rH up to 100 % rH	± 3 % rH	✓
	Magnetic field	x, y-axis: ± 1300 μ T z-axis: ± 2500 μ T	0.3 μ T	✓
	IAQ***	0 - 500	1	✓

* Or alternatively externally

** The temperature is monitored via external sensors that can be connected via the GPIO port

*** IAQ (Index for Air Quality) as well as CO₂ and b-VOC equivalent (breath-Volatile Organic Compounds in exhaled air)



-  Upper limit range
-  Upper warning range
-  Rated range
-  Lower warning range
-  Lower limit range