

Environmental Module

The module is designed to measure environmental conditions in an urban areas. The device is composed of ten independent sensors measuring air quality, temperature, humidity, pressure, light, noise and dust particles. Inbuilt gas sensors measure carbon monoxide (CO), sulfur dioxide (SO₂), ozone (O₃) and nitrogen dioxide (NO₂) in the air. Selection of these gases was made on the basis of Air Protection Act (directive 2008/50/EC) describing concentration limits for gases in the air. The set of measurable gases varies according to the range of available electronics-compatible sensor elements.

Module Technical Conditions:

Sensors and ranges:

CO	0...500 ppm (0...617 mg/m ³)
NO₂	0...20 ppm (0...40,5 mg/m ³)
SO₂	0...50 ppm (0...141 mg/m ³)
O₃	0...20 ppm (0...42,3 mg/m ³)
Temperature	-40...125 °C
Pressure	260...1 260 hPa
Humidity	0...100 %RH
Light (VIS, UVA, UVB)	
Illuminance	0..16 496 lx
Color Temperature	1 000..10 000 K
UV-index	0..12
Noise	0..120 dB
Dust (PM2.5)	0...1 000 µg/m ³
(PM10)	0...1 000 µg/m ³

Communication: IQRF, LoRa 868 MHz

Protection: IP 65 for connectors and case connection

Power supply: 230 V; street lighting mode – day powered by a battery (4 Ah) and night powered 230 V

Dimensions: 138 x 190 x 91 mm

Mounting method: on a street lighting column; on a wall;

Recommended installation height 2-4 m





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