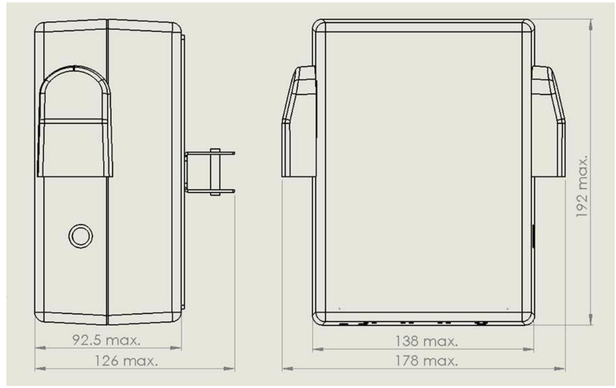
Environmental Module

for external application

The module is designed to measure environmental conditions in an urban area. The device is composed of 10 independent sensors that measure air quality, temperature, humidity, pressure, light, noise and dust particles. The gas sensors measure carbon monoxide, sulfur dioxide, ozone and nitrogen dioxide in the air. The selection of these gases was selected according to the Air Protection Act (directive 2008/50/EC), which describes concentration limits for the gases in the air. The set of gases is variable in the range of available electronics-compatible sensor elements.



MODULE TECHNICAL CONDITIONS:

Sensors and ranges:

CO	0….500 ppm (0….617 mg/m3)
NO_2	0….20 ppm (0….40,5 mg/m3)
SO_2	0….50 ppm (0…141 mg/m3)
O_3	0….20 ppm (0….42,3 mg/m3)
Temperature	-40….125 °C
Pressure	260…1260 hPa
Humidity	0….100 %RH
Light	(VIS, UVA, UVB)
Iluminance	0..16496 lx
Color Temperature	1 000..10 000 K
UV-index	0..12
Noise	0..120 dB
Dust	(PM2.5) 0….1000 µg/m³
	(PM10) 0….1000 µg/m³

Communication:
IQRF, LoRa 868 MHz (MODBUS)

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

Recommended installation height 2-4 m

** The Company reserves the right to change any product specifications without prior notification.*