

CityAir Monitoring Station

CityAir Monitoring Station collects data about the ambient air quality in realtime and transfers it to the server via wire and wireless channels.

CityAir Monitoring Station can be complemented with extension modules, for example, G1 and G2 modules to measure gas concentration in the ambient air.



Performance

Data transmission channels	GSM, Wi-Fi, Ethernet, NB-IoT*
Navigational systems	GPS, GLONASS
IP rating	IP53
Dimensions	150 × 320 × 420 mm
Weight	10 kg
Power supply	100–240 V~, 50/60 Hz
Power consumption	22 W**
Autonomous operation	24 hours

Operating conditions

Temperature	from -40 to +50 °C
Humidity	from 0 % to 98 %
Pressure	from 600 to 850 mm Hg. st.

* Optional

** Parameter is given for normal climate conditions at the fully charged built-in battery.

Particulate matter measurements

Parameter	Range, mg/m ³	Accuracy, %
PM2.5	0 – 1.6	±25
PM10	0 – 3.0	±25
TSP	0 – 6.0	±50

Meteorological measurements

Parameter	Range	Accuracy
Temperature, °C	-40 – +50	±1
Humidity, %	0 – 100	±3
Pressure, mm Hg. st.	600 – 850	±1

G1 Module

An extension module used to measure concentrations of nitrogen dioxide NO₂, ozone O₃ and carbon monoxide CO in the ambient air.

Performance

Operation principle	electrochemical
Weight	3 kg
Dimensions	205 × 205 × 255 mm
IP rating	IP53
Electric parameters	12 V $\overline{=}$, 100 mA



Measured parameters

Parameter	Range, mg/m ³	Accuracy, %	
		Reduced	Relative
Nitrogen dioxide, NO ₂	0 – 0.100	±25	-
	0.100 – 0.800	-	±25
Ozone, O ₃	0 – 0.080	±25	-
	0.080 – 0.500	-	±25
Carbon monoxide, CO	0 – 1.0	±25	-
	1.0 – 50.0	-	±25

G2 Module

An extension module used to measure concentrations of hydrogen sulfide H₂S, sulfur dioxide SO₂ in the ambient air.

Performance

Operation principle	electrochemical
Weight	3 kg
Dimensions	205 × 205 × 255 mm
IP rating	IP53
Electric parameters	12 V $\overline{=}$, 100 mA



Measured parameters

Parameter	Range, mg/m ³	Accuracy, %	
		Reduced	Relative
Hydrogen sulfide, H ₂ S	0 – 0.008	±25	-
	0,008 – 0.600	-	±25
Sulfur dioxide, SO ₂	0 – 0.100	±25	-
	0.100 – 2,200	-	±25