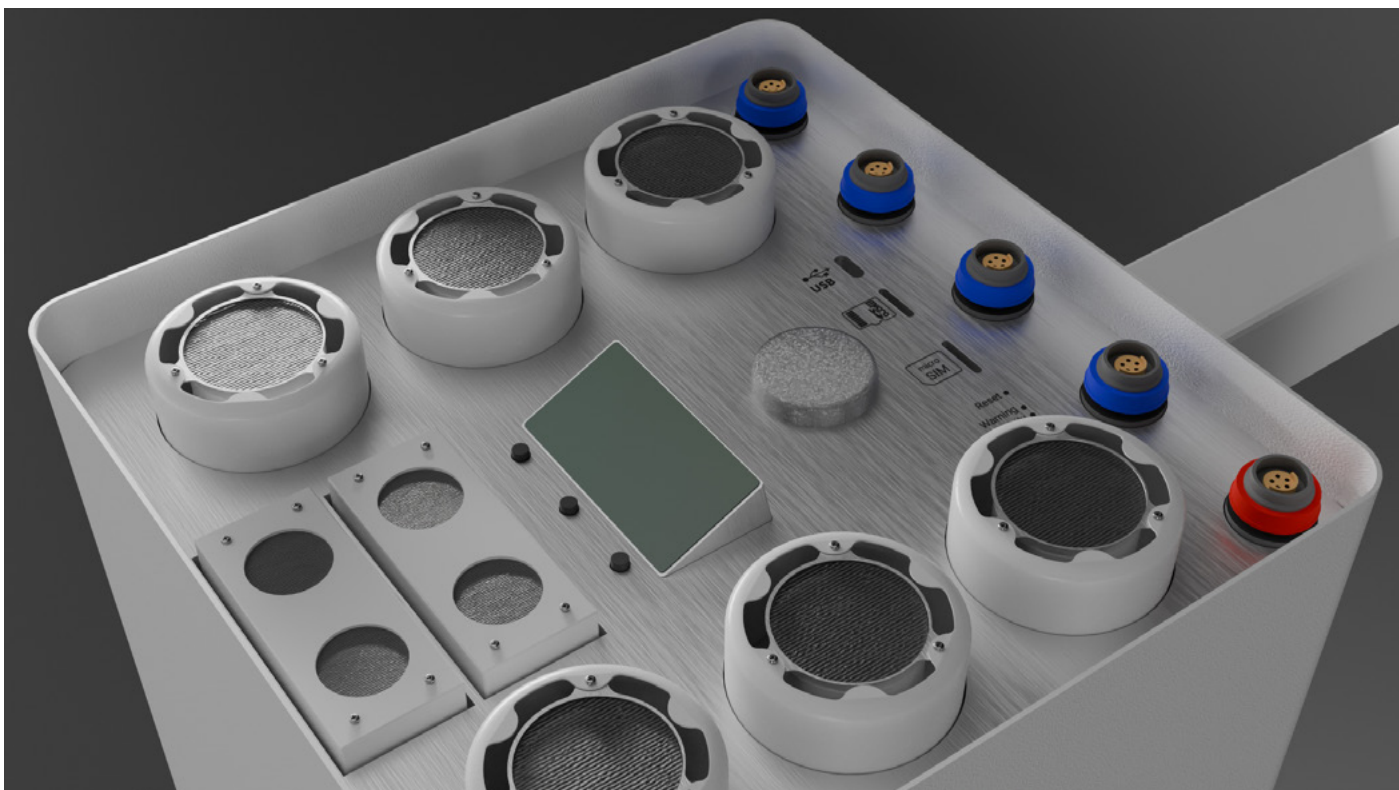
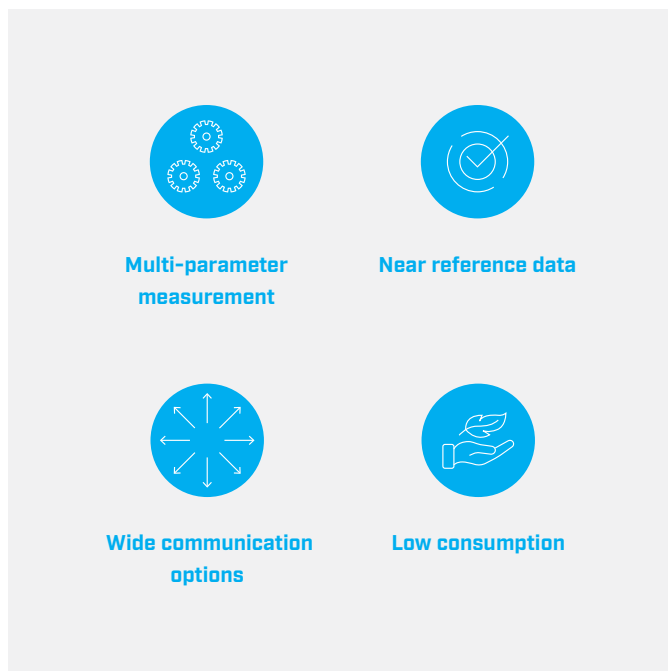
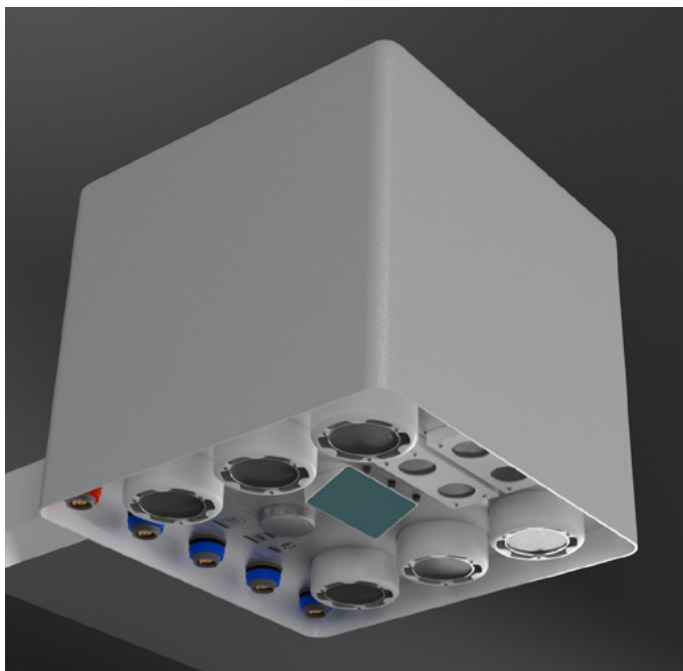


# AirQube-6

*Near Reference Air Quality Monitor*

The AirQube-6 is a compact modular multi-parameter monitor designed for real-time monitoring of airborne particulate matter  $PM_{1.0}$ ,  $PM_{2.5}$ ,  $PM_{10}$ . Its small form factor and low power consumption make it suitable for indoor as well as outdoor applications.



The AirQube-6 utilizes the smart modules and can include 1 or 2 (for increased reliability) PM sensors, each measuring  $PM_{1.0}$ ,  $PM_{2.5}$  and  $PM_{10}$ .

#### **$PM_{1.0}$**

Type: Optical particle counter

Mass concentration measurement range: 0 – 1000  $\mu\text{g}/\text{m}^3$

Resolution: 1  $\mu\text{g}/\text{m}^3$

#### **$PM_{2.5}$**

Type: Optical particle counter

Mass concentration measurement range: 0 – 1000  $\mu\text{g}/\text{m}^3$

Resolution: 1  $\mu\text{g}/\text{m}^3$

Accuracy:  $\pm 10\%$  (at room temperature and 100  $\mu\text{g}/\text{m}^3$ )

#### **$PM_{10}$**

Type: Optical particle counter

Mass concentration measurement range: 0 – 1000  $\mu\text{g}/\text{m}^3$

Resolution: 1  $\mu\text{g}/\text{m}^3$

Accuracy:  $\pm 20\%$  (at room temperature and 100  $\mu\text{g}/\text{m}^3$ )

### **Applications:**

- Air quality networks supplementing existing regulatory stations
- Air quality modeling
- Building automation
- Monitoring of dust emitting industrial facilities and construction sites
- Road dust monitoring and traffic management
- Fire smoke monitoring
- Smart city and IoT networks

### **Easy Deployment**

The AirQube-6 is designed with respect to the needs of the air quality networks, for road and traffic management, for monitoring dust-emitting construction sites and industrial installations as well as fire smoke. The intelligent monitor calculates the output data and provides the output via serial interface or, optionally, 4G/IoT modem. It can be coupled with the MicroStep-MIS AMS 111 data logger and transfer data to your EnviDB database or MicroStep-MIS EnviDB.Cloud / 3rd party platform. Optionally, the variant with 4G/IoT modem can establish communication on its own.

### **Dimension and weight**

<b>Dimension</b>	22 x 22 x 20 cm
<b>Weight (depends on actual configuration)</b>	sensor body < 1 kg + weight modules and batteries used

### **Output**

<b>Serial outputs</b>	RS-485, SDI-12 RS-232, USB (available with 4G/IoT modem option)
<b>Option</b>	4G/IoT modem (SMS, FTP, http, MicroStep-MIS EnviDB protocol)
<b>Output rate</b>	from 60s

### **Electrical parameters**

<b>External power in Li-on power version</b>	5 V to 30 V (AC/DC, PV panel)
<b>External power in 12 V Pb accumulator power version</b>	15 V to 30 V (AC/DC, PV panel)
<b>Consumption in sleep mode</b>	0.37 mW
<b>Consumption in active mode</b>	Depending on the configuration
<b>Built-in charger with MPPT algorithm</b>	Available with 4G/IoT option

### **Electrical parameters**

<b>Operating temperature</b>	processing unit $-40\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$ , depends on configuration
<b>Operating humidity</b>	0 to 100 % RH
<b>Protection rating</b>	IP 65

All specifications (technical included) are subject to change without notice.



**ISO Quality Certified Company**

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