

enviSENS

AMBIENT AIR MONITOR



BASIC FEATURES

- continuous monitoring of ambient air pollution;
- sensor based real-time simultaneous measurement of gas pollutants and particle matter in ambient air;
- indicative measurement fully in compliance with EN regulation requirements;
- high modularity and flexibility;
- much lower initial investment in comparison with reference and equivalent analyzers;
- maintenance free;
- no consumables and/or accessories, extremely low power consumption – low operation costs;
- solar power and battery operation available;
- various mounting possibilities (incl. wall, pole, mast, stand alone ...);
- ideal solution for city infrastructure and establishment of AQM monitoring networks;
- various communication tools available (i.e. GPRS, LoRa, SigFox and others)
- automatic data acquisition, storage and communication with central server, online CLOUD included

Technical characteristics:

- Measurement principle: optical, NDIR, PID and electrochemical sensors
- Measurement possibilities: SO₂, CO, CO₂, O₃, NO, NO₂, H₂S, CH₄, NH₃, CH₂O, VOC, PM₁, PM_{2,5}, PM₁₀, and various meteorological components;
- Number of sensors: up to 6 gas sensors together with PM sensor and meteorological sensors
- Data output (avg): flexible, 1min AVG in default
- Operation temperature: -10 - +50°C
- Power: 230 V; 50/60 Hz; or 12 / 24 V alternatives
- Dimension: 280 x 210 x 130 cm (H x W x D)
- Enclosure: IP64
- Control unit: micro-computer Raspberry
- Communication: built-in GPRS modem (or other types as for example LoRa or SigFox networks)



Application areas:

- Air Quality Monitoring Networks
- SmartCities
- Fence line monitoring
- Odor monitoring applications
- Industrial hotspot applications
- Clean areas monitoring
- Occupational health
- Research applications
- Air dispersion modeling