



SENSE SQUARE

air quality analytics

Sense Square S.r.l.

R&D e Produzione

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PUBLIC ADMINISTRATIONS

ENTITIES AND PARKS

CITIZENS

ENTERPRISES

Sense Square srl is an innovative start-up that intends to provide products and services in the field of environmental monitoring through smart technologies, ICT, IoT. The aim of the start-up is to make air quality monitoring a right of all citizens, so as to make them aware of the air they breathe, thus allowing them to behave and take action to limit the negative impacts on own health.

TECHNICAL SHEET FULL MONITORING STATIONS

Type of power supply: connected by cable to the mains.

Operating voltage of the control unit: 5v

Technology used for sending data: GPRS or WIFI

Frequency of data transmission: from 2 to 10 minutes

Data collected by the control unit:

1. Meteorological;
2. Thin powders (PM 2.5 and PM 10);
3. Gas (see table).

Technologies used for the detection of meteorological data:

1. MEMS (Thermometer, Barometer and Hygrometer);
2. Anemometer and wind vane.

Temperature measurement range: -40°C to + 85°C

Temperature reading accuracy: ± 1°C

Technology used for the detection of fine particles: Laser Diffraction (Laser Scattering principle).

Measurement range: 0 - 1000 µg / m³

Relative error: <10%

Technology used for gas detection: Electrochemical Sensors

GAS sensor table:

TYPE OF GAS	MEASUREMENT RANGE	RESOLUTION	REPEATABILITY	TEMPERATURE RANGE	UMIDITY RANGE
NO ₂	0 – 20 PPM	< 20 PPB	< ± 3%	da -20°C a +55°C	Da 15% a 90%
VOC	0 – 20 PPM	20 PPB	< ± 3%	da -20°C a +55°C	Da 15% a 90%
CO	0 – 1000 PPM	< 100 PPB	< ± 2%	da -20°C a +55°C	Da 15% a 90%
O ₃	0 – 20 PPM	< 20 PPB	< ± 3%	da -20°C a +55°C	Da 15% a 90%
H ₂ S	0 – 20 PPM	1 PPB	< ± 3%	da -20°C a +55°C	Da 15% a 90%
SO ₂	0 – 100 PPM	5 PPB	< ± 3%	da -20°C a +55°C	Da 15% a 90%