

enviMET

AUTOMATIC SENSOR WEATHER STATION

Monitoring meteorological variables is an integral part of local air quality monitoring. As part of the affected area of a few hectares or square kilometers, the measured values can vary quite considerably. In order to interpret the measured data correctly, it is the measurement network monitoring aerosol concentrations of particulate matter or common gaseous pollutants to incorporate sensor meteorological units. Meteorological sensor station enviMET is a suitable addition to the sensor measurement network primarily made up of units enviDUST and enviSENS.

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The enviMET unit is a device used for online monitoring of meteorological variables in a specified location. For this purpose, the sensor from the company RIKKA is used.

Wind speed – ultrasonic measuring principle, range 0-40m/s, resolution 0.01m/s, deviation $\pm 2\%$

Wind direction – ultrasonic measuring principle, range 0-360°, resolution 1°, deviation $\pm 3^\circ$

Atmospheric temperature – range -40 to +80°C, resolution 0.1°C, $\pm 0.5^\circ\text{C}$ deviation

Atmospheric humidity – range 0-100%RH, resolution 0.1%RH, $\pm 3\%$ deviation

Atmospheric pressure – range 10-1100hPa, resolution 0.1hPa, $\pm 1.5\text{hPa}$ deviation

Key benefits and features



Modular unit.



Possibility to create local measurement networks.



Low acquisition costs compared to professional meteorological systems.



Compact unit with variable installation options.



Online transmission of measured data using GSM technology.

Technical parameters:

Power supply - 230V / 50Hz

Average power consumption – 3,5W

Enclosure rating – IP65

