

# Plugsensor

## Conj. Sônico Pro + Qualidade do Ar



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The **Plugsensor Conj. Sônico Pro + Qualidade do Ar** is an integrated solution for environmental monitoring, combining high-precision sonic sensors with advanced air quality analysis. It measures temperature, humidity, optical rain (precipitation), wind speed and direction, as well as PM2.5, PM10, CO, SO<sub>2</sub>, NO<sub>2</sub>, and O<sub>3</sub> concentrations, delivering reliable data for environmental management, decision-making, and compliance with technical standards.



## Meteorological Sensors

Parameter	Minimum	Maximum	Accuracy	Resolution
Atmospheric Temperature	-40° C	60° C	±0,3° C	0,01° C
Atmospheric Humidity	0%	100%	0,01%	±3% RH
Atmospheric Pressure	300	1.100 hPa	±1 hPa	0,1 hPa
Wind Speed	0 m/s	60 m/s	±3%	0,01 m/s
Wind Direction	0°	360°	±2°	0,1°
Precipitation	0 mm/h	200 mm/h	±10%	0,2 mm

## Air Quality Sensors

Parameter	Minimum	Maximum	Accuracy	Resolution
PM2.5	0 µg/m <sup>3</sup>	1.000 µg/m <sup>3</sup>	± 10 %	1 µg/m <sup>3</sup>
PM10	0 µg/m <sup>3</sup>	1.000 µg/m <sup>3</sup>	± 10 %	1 µg/m <sup>3</sup>
Carbon Monoxide (CO)	0 ppm	12,5 ppm	± 1,5% F.S	≤ 10 ppb
Sulfur Dioxide (SO <sub>2</sub> )	0 ppb	2.000 ppb	± 1,5% F.S	≤ 10 ppb
Nitrogen Dioxide (NO <sub>2</sub> )	0 ppb	2.000 ppb	± 1,5% F.S	≤ 10 ppb
Ozone (O <sub>3</sub> )	0 ppb	2.000 ppb	± 1,5% F.S	≤ 10 ppb

## Calculated Parameters

Parameter	Minimum	Maximum	Resolution
Heat Index	-30° C	60° C	0,1° C
Dew Point	-20° C	40° C	0,1° C
Delta T	0° C		0,1° C

