

## VDX -001 MultiParameter Air Quality Verge Ambient Sensor

### Data Sheet

#### Features

The VNT-001 from Verge Solutions is part of the 5V, Modbus and weather compatible range of sensors the connects to the Captis range of loggers.


This system design of Multiparameter sensor is mainly used for the onsite real-time measurement of various types of parameters found in cities and stormwater systems and around construction. Has a wide frequency and dB range to meet the needs of surveys or studies.

- A Verge Innovation that makes the Captis, particularly the Captis Solar logger, able to monitor any of 7 parameters, including dusts, gas, compounds, temperature and humidity.
- Due to its low cost the VDX-001 is an IoT product designed to compliment official monitors by providing much more granular visibility by performing many more measurements in many more places than traditionally undertaken,
- Packaged in a solar radiation shield allowing for mounting in the outdoors, making measurements in many more places possible.
- Measuring both PM2.5 and PM10 this sensor covers many scenarios...
- plus Total volatile organic compounds (TVOC) is a group of VOCs used to represent the entire pool of pollutants...
- plus CO2, formeldehyde, temperature and humidity.



#### Specifications

<b>Measurement Type</b>	Air Quality
<b>Measuring Parameters</b>	TVOC, PM2.5, PM10, Temp, Humidity, CH2O, eCO2
<b>Output</b>	Modbus
<b>Power Supply</b>	5VDC
<b>Power Consumption</b>	200mA (requires disconnection of some sensors to operate directly with Captis - De)
<b>Wake time</b>	16 Seconds



Parameter	Resolution	Range	Accuracy
eCO2	1ppm	400-5000ppm	± 75ppm
PM2.5	1 ug/m <sup>3</sup>	0-1000 ug/m <sup>3</sup>	± 10%
PM10		0-1000 ug/m <sup>3</sup>	± 10%
Temperature	0.01 °C	0-60 °C	± 0.5 °C
Humidity	0.04%	0-100%RH	± 3%RH
TVOC	1 ug/m <sup>3</sup>	0-1200 ug/m <sup>3</sup>	± 12ug/m <sup>3</sup>
CH2O	1 ug/m <sup>3</sup>	0-500 ug/m <sup>3</sup>	± 3ug/m <sup>3</sup>

\*\*\*Optional weather shield in image for illustration

### Compatible With:

Captis Multi, Captis Power Plus, Captis Solar.

## Contact

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