



# airthinxPRO

technical characteristics

# Product Specifications



## Gas Sensors

SO <sub>2</sub>	Effective Range	0 - 100 ppm
	Maximum Consistency Error	< ±15
NO <sub>2</sub>	Effective Range	0 - 20 ppm
	Maximum Consistency Error	-20 to -40
NO	Effective Range	0 - 20 ppm
	Maximum Consistency Error	0 to -20
CH <sub>2</sub> O	Effective Range	0~1 mg/m <sup>3</sup>
	Maximum Error	<5% FS
CO <sub>2</sub>	Effective Range	0 to 100 % vol (Process Control)
	Maximum Consistency Error	±10ppm
CO	Effective Range	0 - 1000 ppm
	Maximum Consistency Error	< 10
O	Effective Range	80 to 120
	Maximum Consistency Error	< 1
O <sub>3</sub>	Effective Range	0 - 20 ppm
	Maximum Consistency Error	< -20 to -40
NH <sub>3</sub>	Effective Range	0 - 100 ppm
	Maximum Consistency Error	< 3
H <sub>2</sub> S	Effective Range	0 - 100 ppm
	Maximum Consistency Error	< 20
tVOCs (PID)	Effective Range	0 - 200 ppm
	Maximum Consistency Error	> 0.6

## PM Sensors

PM 1, PM 2.5, PM 10	0.3~1.0; 1.0~2.5; 2.5~10 µm
Effective Range	0~500 µg/m <sup>3</sup>
Resolution	1 µg/m <sup>3</sup>
Efficiency	98%>=0.5µm
Maximum Consistency Error	±10% @100~500 µg/m <sup>3</sup>
Standard Volume	0.1L

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## Environmental Sensors

Temperature	Range	-20 - 70 °C
	Resolution	0.1 °C
	Maximum Error	±0.5 °C
Humidity	Range	15 - 75% RH
	Resolution	0.1 %RH
	Maximum Error	±2 %RH
Barometer	Range	300-1100 hPa
	Resolution	±0.12 Pa
	Maximum Error	±1.3 Pa

## Communications

Cellular	LTE/HSPA+/HSPA/GPRS
WiFi	802.11 b/g
Bluetooth	Bluetooth 4.0
Mesh	Zigbee
GPS	A-GPS
Antenna	Built-in (GPRS, 3G, Zigbee, Bluetooth)
SIM Card	Built-in

## General

Input Voltage	5 - 12 VDC
Power	0.6 Watt
Operating Temperature	-30 °C to 75 °C ( -22 F to 167 F)
Accelerometer	16g (13-bit resolution)
Dimensions (LxWxD)	4.5in (11.43cm) x 9.625in (24.45cm) x 4.5in (11.43cm)
Weight	1.6 Lbs (0.73 kg)
Certifications	CE, FCC