



S28 - MICROPNP AMMONIA GAS SENSOR

PRODUCT DESCRIPTION

The MicroPnP™ Ammonia Gas (NH₃) Sensor (**S28**) provides the ability to measure ammonia concentrations using a dedicated gas sensor. Next to Ammonia, the sensor is also sensitive to other substances such as Hydrogen Sulfide, Sulfur Dioxide, Hydrogen, Nitric Oxide, Carbon Monoxide and Nitrogen Dioxide. On-board humidity, pressure and temperature sensing can be used for in-the-field calibration purposes. An internal system maintains the sensor bias when unpowered to enable quick settling and measurements after power-up.

MICROPNP PERIPHERALS

MicroPnP Peripherals are self-identifying sensors and actuators that connect to MicroPnP Wireless Devices to provide plug-and-play sensing and control.

The MicroPnP software automatically installs and configures all drivers, eliminating the cost and complexity of deploying an IoT network.

APPLICATIONS

Easy, flexible and accurate monitoring of ammonia (or equivalent gases) concentrations using the SGX-7NH3 sensor. Other gas sensors can be integrated on request.

CORE COMPONENTS

The **S28** uses the SGX-7NH3 sensor, for more information please visit: [SGX-7NH3.pdf](#)

The **S28** has a humidity, pressure and temperature sensor on-board. This is used for increased accuracy during gas sensing.

S28 CHARACTERISTICS

Characteristic	Value	Unit
Range	0 to 100	ppm
Accuracy	0.5	ppm
Response time (T ₉₀)	< 40	s
Temperature range	-40 to 50	°C
Pressure range	800 to 1200	mbar
Humidity range (non-condensing)	15 to 90	% RH

RELATED PRODUCTS

Item **S28** requires a and a MicroPnP Wireless Device such as **Pxx** or **Lxx**. This item is compatible with all items in the MicroPnP catalog:

versasense.com/files/VersaSense-Catalog.pdf

INFORMATION/SUPPORT

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