

Ammonia Gas Sensor with 3G Connectivity SIAQ-3G-NH3

SKU: SIAQ-3G-NH3

Doc No: SIAQ-3G-NH3-DS-EN-10

Introduction

SIAQ-3G-NH3 is an electrochemical-type gas sensor which has high sensitivity to low concentrations of ammonia gas, high selectivity, and a stable baseline. With modular design, it allows user to replace the measurement module easily when the sensor life reached the limit. The device has built-in IoT gateway with 3G cellular connectivity allow to connect easily to any IoT platform. The measurement sensor is from Japan to deliver the highest performance and accuracy.

- High selectivity to NH3;
- Small influence by H2S;
- Excellent Durability to NH3 exposure;
- Sensor life > 2 years;
- Stable base-line;
- 3G Connectivity;
- Ready to connect to Globiots platform;
- Plug & Play.

Typical Applications

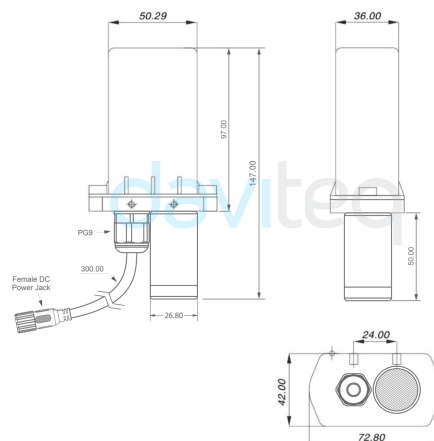
- Monitor leakage of Ammonia gas for Refrigerator;
- NH3 Monitoring;
- NH3 Detector.

AMMONIA GAS SENSOR WITH 3G CONNECTIVITY
SIAQ-3G-NH3



SIAQ-3G-NH3-H1.PNG

DIMENSION DRAWING OF NH3 SENSOR
(Unit: mm)



SIAQ-3G-NH3-H2.PNG



Specification

| SENSOR SPECIFICATION | |
|--|----------------------------------|
| NH3 sensor | electrochemical-type gas sensor |
| Measuring range for NH3 | 0..100 ppm |
| Max detecting concentration | 200 ppm |
| Repeatability | < 10% of Reading value |
| Resolution | 1 ppm |
| Stability / month | < 2% of Reading value |
| Zero stability | +/- 2 ppm |
| Working atmospheric pressure | 101.3 Kpa +/- 10% |
| Sensor life | > 2 years |
| Humidity and Temperature sensor | Digital type, factory calibrated |
| Humidity measuring range & accuracy | 0 .. 100 %RH, +/- 2.0% |
| Humidity resolution | 0.1% |
| Temperature measuring range & accuracy | -40 .. + 85 oC, +/- 0.2 oC |
| Temperature resolution | 0.1 oC |
| Working temperature | -30 .. + 50 oC |
| Working humidity | 15 .. 90% RH |

| | |
|-------------------------------------|--|
| Sensor Filter | 316SS sintered filter |
| Sensor housing material / Rating | SS316/SS304 / for Indoor use |
| CONNECTIVITY SPECIFICATION | |
| Cellular | 3G-Dual band (2100/900) |
| Host communication supports | TCP/IP, UDP/IP, FTP, HTTPS, SNMP... |
| Vietnam Type Approval Certification | QCVN 54:2011/BTTTT, QCVN 15:2015/BTTTT (DAVITEQ B00122019) |
| Power supply | 7..48VDC, avg. 200mA, peak 1.5A |
| Back-up battery | Lithium Super Capacitor |
| On-board memory & sensors | 2MB Flash, PCB temperature sensor |
| Electrical connectors | M12, 4-pin, coding A or 9mm Power Plug and USB port |
| SIM slot | 01 x micro-SIM (cellular versions only) |
| Included accessories | mounting bracket for wall mount (cellular version only) |
| Operating Temperature/Humidity | -20 .. + 60 degC / 95%RH, non-condensing |
| Housing/Protection | Aluminum+Polycarbonate / IP67 |
| Dimension | H180xW73xD42 |
| Net weight | <400 grams |

Ordering Code

| Item code | Descriptions |
|-------------|---|
| SIAQ-3G-NH3 | INDOOR AIR QUALITY MONITORING, 3G DUAL BAND CONNECTIVITY, WITHOUT DISPLAY, 7-48VDC SUPPLY, 9MM DC POWER JACK AND 220VAC POWER ADAPTER, NH3-TEMPERATURE-HUMIDITY |

 [Link for full datasheet:](#)

 [Link for manual:](#)

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