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

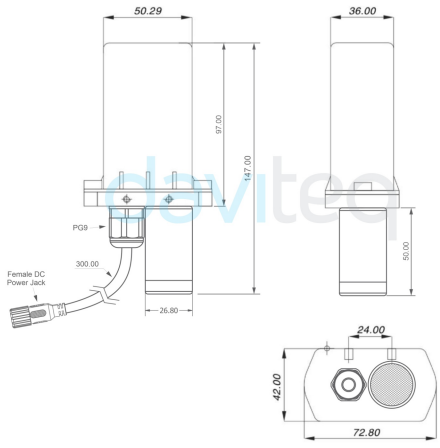
- Monitor leakage of Ammonia gas for Refrigerator;
- NH3 Monitoring;
- NH3 Detector.

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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