



Electrochemical NH3 Density Transmitter via USB

UA54-NH3-100

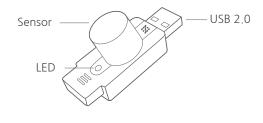
- Real-time NH3 density, Temp/RH transmitter
- · Electrochemical NH3 gas sensor embedded
- · Individual Certificate included
- Operating On Windows / Linux / MacOS
- AT Command Support
- PC Recording Software (Tapaculo Lite)
- Android Recording App. (Tapaculo Mobile)

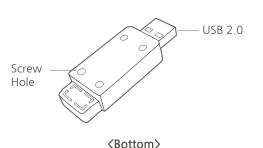


The UA54-NH3-100 device has an electrochemical Ammonia (NH3) sensor inside. It transmits measured NH3 density and temperature information in real-time via the USB connector.

The UA Series is automatically recognized as a serial port on the operating system and accessed using the AT command. Multiple USB connections of the UA device could compose the multi-channel sensor. The sensor data is not stored in the UA, but recording in PC and Android device. 128CH real time monitoring software on pc, Tapaculo Lite is downloadable on our website(www.radionode365.com). And android real time recording application is also available from google play store. The optional RN17X model helps UA series for you to setup remote web monitoring system.

Hardware



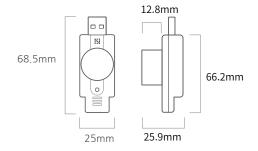


⟨Front⟩

Contact Information

- www.radionode365.com
- master@dekist.com

Dimensions



↑ CAUTION!

- Long term exposures and high concentrations may affect the performance characteristics
- Sudden changes in humidity cause short-term transient signals
- Avoid contact with conductors.
- Static electricity can cause distorted values.



The most innovated data logger



Electrochemical NH3 Density Transmitter via USB

UA54-NH3-100 Specifications

oo specifications			
• CH1: NH3 • CH2: Temperature • CH3: Humidity			
Electrochemical Cell			
Metal Sintering filter			
PC(Polycarbonate)			
• NH3: 0 ~ 100 ppm • Temperature: -10 ~ 50°C (-14 ~ 122°F) • Humidity: 5~95%			
• NH3: ppm • Temperature: °C(Default), °F • Humidity: %			
1 sec			
• NH3: 0.5ppm • Temperature: 0.01°C • Humidity: 0.01%			
• NH3: < 3% of measured value • Temperature: ±0.2°C • Humidity: ±2.0%			
Temperature			
Zero ± 3 ppm			
< 5% signal loss / 6 months			
T90 < 35 secs			
< 3mins after power-on			
• Temperature: -10 ~ 50°C (14 ~ 122°F) • Humidity: 15 ~ 90% R.H(non condensing)			
More than 12 months @ discontinuous measurement			
< 4ppm			
Interfering Gas	Cross-Sens. [%]		
H2S	< 2.5		
5V (Max. 100mW)			
Individual Certificate. Calibration with 50ppm NH3 calibration gas mixtures			
Two point Calibration Mode Manual Zero Calibration Mode			
	• CH2: Temperature • CH3: Humidity Electrochemical Cell Metal Sintering filter PC(Polycarbonate) • NH3: 0 ~ 100 ppm • Temperature: -10 ~ 56 • Humidity: 5~95% • NH3: ppm • Temperature: °C(Defaeled Humidity: % 1 sec • NH3: 0.5ppm • Temperature: 0.01°C • Humidity: 0.01% • NH3: < 3% of measure: Temperature: ±0.2°C • Humidity: ±2.0% Temperature Zero ± 3 ppm < 5% signal loss / 6 moderature Zero ± 3 ppm < 5% signal loss / 6 moderature - 10 ~ 56 • Humidity: 15 ~ 90% Recondensing) More than 12 months of measurement < 4ppm Interfering Gas H2S 5V (Max. 100mW) Individual Certificate. Calibration with 50ppring as mixtures Two point Calibration		

USB Port	USB 2.0 Type A Plug		
Output Signal	USB digital, CDC Device (AT Command)		
LED	Device Status Indicator • BLINK RED & GREEN: Warming-up • RED KEEP ON: USB Connection Failed • BLINK GREEN: Measuring		
Software Support	Tapaculo Mobile 3CH recording software on Android devices Download: Google play store Tapaculo Lite 128CH recording software on PC Download: www.radionode365.com Calibration Software Calibrator that compensates measuring error. Download: www.radionode365.com		

1) Gas sensors have a longer life when measured discontinuously than when measured continuously.

Application

- Animal Farm
- Industrial safety Monitoring
- Bio-labs
- Sewage Treatment Plant

Product Components

Model	Component
UA54- NH3-100	· UA54-NH3-100(1EA)· USB Extension Cable 1.5m(1EA)· Calibration Certificate(1EA)

Optional Accessories

Туре	Model Number	Spec.
Sensor data transmitter via Ethernet	RN171 WC	 Supports cloud monitoring Supports MODBUS TCP/ HTTP data transmission Power: PoE 48V, IEEE802.3af/at, DC6V, 1.9W
Sensor data transmitter via WiFi	RN172 WC-D	 Supports cloud monitoring Supports MODBUS TCP/ HTTP data transmission Power: DC12V, 5W