



Electrochemical H2S Density Transmitter via USB

UA53-H2S-50

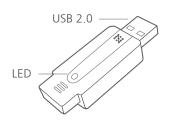
- · Real-time Hydrogen sulfide Density Data
- · Cost-effective gas sensor
- · Long lifetime
- · Calibration certificate included
- · Operating On Windows/ Linux / Mac
- · Simple AT command Support
- PC Recording Software (Tapaculo Lite)
- Android Recording App. (Tapaculo Mobile)



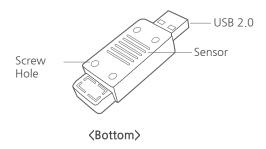
The UA53 device transmits measured gas density information in real-time via the USB connector. Available to detect Hydrogen sulfide(H2S) and simply calibration on PC. In most operating systems, the UA Series is recognized as a serial COM port and controlled via the AT command.

Monitoring software is available for Windows (Tapaculo Lite) and Android (Tapaculo Mobile), which can be downloaded from the homepage and play store respectively. To use the cloud-based Radionode365 web service, you need to add a Wireless Node Ethernet Transmitter (RN171) or Wi-Fi Transmitter (RN172).

Hardware



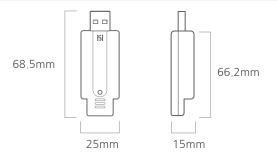
⟨Front⟩



Contact Information

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- · master@dekist.com

Dimensions



△ CAUTION!

UA53-H2S doesn't guarantee performance in the following environments.

- · Condensation and Water
- · Salt Water Contamination
- High-Temperature Operation (>70°C) for more than 1 month
- Low Humidity Operation (<15% RH) for more than 3 months
- < 10% humidity may permanently damage the sensor.
- · Highly contaminated air over a prolonged period
- Highly levels of particles or soot (unless proper filtering is provided)





The most innovated data logger

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UA54-H2S-50 Specifications

	•		
Sensor Channel Info.	• CH1: H2S • CH2: Temperature • CH3: Humidity		
Gas Sensor Type	Electrochemical Cell		
Gas Sensor Filter	None		
Body Material	PC(Polycarbonate)		
Measurement Range	• H2S: 0 ~50ppm • Temperature: -30 ~ 55°C • Humidity: 5~95%		
Measurement Unit (Selection using SW)	H2S: ppmTemperature: °C(Default), °FHumidity: %		
Measurement Cycle	1 sec		
Sensor Resolution	• H2S: 0.05ppm • Temperature: 0.01°C • Humidity: 0.01%		
Sensor Accuracy (Repeatability)	• H2S: < FS ±1% • Temperature: ±0.2°C • Humidity: ±2.0%		
Compensation Logic	None		
Gas Response Time	T90 < 30 secs		
Warming up Time	< 1 min after power-on		
Operating Condition	• Temperature: - 30 ~ 50°C • Humidity: 15 ~ 95% RH(non condensing)		
Lifetime ¹⁾	10 Years @ (23 \pm 3°C, 40 \pm 10% RH recommended)		
Cross-Sensitivity	Interfering Gas: CO, SO2, NO		
Power Consumption	5V (Max. 110mW)		
Calibration Certificate	Bulk Calibration Certificate		
Calibration Method	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 2CH 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

- Industrial safety
- Building environment monitoring
- Industrial hygiene
- Sterilization of commercial and residential buildings
- Virus disinfection
- · Air quality monitoring

Product Components

Model	Component
UA53- H2S-50	UA53-H2S-50(1EA) USB Extension Cable(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	 Supports cloud monitoring Supports MODBUS TCP/ HTTP data transmission Power: DC6V, 2.4W