

Electrochemical EO Density Transmitter via USB

UA54-E0-10

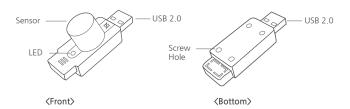
- Real-time C2H4O density, Temp/RH transmitter
- Electrochemical C2H4O gas sensor embedded
- · Individual Certificate included
- Operating On Windows / Linux / MacOS
- AT Command Support
- PC Recording Software (Tapaculo Lite)
- Android Recording App. (Tapaculo Mobile)



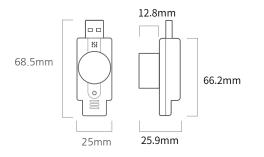
The UA54-EO-10 device has an electrochemical Ethylene Oxide(C2H4O) sensor inside. It transmits measured EO density and temperature information in real-time via the USB connector.

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



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.

Contact Information

- www.radionode365.com
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The most innovated data logger



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UA54-EO-10 Specifications

Sensor Channel Info.	CH1: EO (Ethylene Oxide),(2H4O) CH2: Temperature CH3: Humidity			
Gas Sensor Type	Electrochemical Cell			
Gas Sensor Filter	Metal Sintering filter			
Body Material	PC(Polycarbonate)			
Measurement Range	• C2H4O: 0 ~ 10 ppm • Temperature: -40 ~ 50°C (-40 ~ 122°F) • Humidity: 5~95%			
Measurement Unit (Selection using SW)	• C2H4O: ppm • Temperature: °C(Default), °F • Humidity: %			
Measurement Cycle	1 sec			
Sensor Resolution	• EO: 0.05ppm • Temperature: 0.01°C • Humidity: 0.01%			
Sensor Accuracy (Repeatability)	EO: < 2% of measured valueTemperature: ±0.2°CHumidity: ±2.0%			
Baseline Drift	Zero ± 1 ppm			
Long-term Drift	< 2% signal loss / month			
Gas Response Time	T90 < 100 secs			
Warming up Time	< 3mins after power-on			
Operating Condition	• Temperature: -40 ~ 50°C (-40 ~122°F) • Humidity: 15 ~ 90% R.H(non condensing)			
Lifetime ¹⁾	More than 12 months @ discontinuous measurement			
	Interfering Gas	Concentration [ppm]	Reading [ppm]	
	Acetone (C3H6O)	300	~2	
	Benzene (C6H6)	100	~10	
	CO	100	20土10	
	Ethanol (C2H5OH)	30	21	
Cross-Sensitivity	Formic Acid (HCOOH)	42	42±3	
2. 300 00.10101010	H2S	20	40土2	
	Methyl Mercaptan (MM,CH3SH)	10	~12	
	ureureTert- Butyl Mercaptan (TBM,(CH3)3CSH)	10	~11	
	Toluene (C7H8)	30	6	
	Xylene (C8H10)	25	5	
Power Consumption	5V (Max. 90mW)			
Calibration Certificate	Individual Certificate Calibration with 50ppm CO(Interfering Gas) calibration gas mixtures			

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

Calibration Method	Two point Calibration Mode Manual Zero Calibration Mode		
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 General 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		

Application

- Disinfection and Sterilization
- Medical
- Industrial Safety Monitoring
- Bio-labs.

Product Components

Model	Component
UA54- EO-10	 UA54-EO-10(1EA) USB Extension Cable 1.5 m(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