



NDIR Optical High-Density Carbon dioxide Transmitter via USB

UA52-C02-20

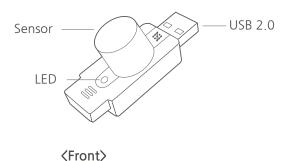
- Real-time CO2, Temperature transmitter
- · Long Lifetime using NDIR
- · Individual Certificated included
- Operating On Windows / Linux / MacOS
- AT Command Support
- PC Recording Software (Tapaculo Lite)
- · Android Recording App. (Tapaculo Mobile)

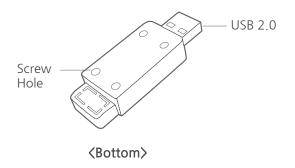


The UA52-CO2-20 device has an NDIR optical Carbon dioxide(CO2) sensor inside. It transmits measured Carbon dioxide and temperature information in real-time via the USB connector.

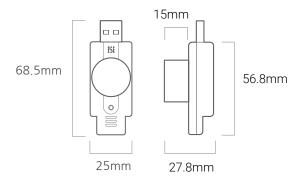
The UA Series is automatically recognized as a serial port on the operating system and accessed using the AT command. Multiple USB connections of the UA device could compose the multi-channel sensor. The sensor data is not stored in the UA, but recording in PC and Android device. 128CH real time monitoring 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!

• Use in a non-condensing environment. Otherwise, distorted measurements are read.

Contact Information

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





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UA52-CO2-20 Specifications

Sensor Channel Info.	• CH1: CO2 • CH2: Temperature		
Gas Sensor Type	NDIR Optical sensor		
Gas Sensor Filter	Metal Sintering filter		
Body Material	ABS		
Measurement Range	• CO2 : 0 ~ 20%, 0 ~ 200000 ppm • Temperature : 0 ~ 50°C (32 ~ 122°F)		
Measurement Unit (Selection using SW)	• CO2: %(Default), ppm • Temperature: °C(Default), °F		
Measurement Cycle	1 sec		
Sensor Resolution	• CO2: 0.01% (100ppm) • Temperature: 0.25°C		
Sensor Accuracy (Repeatability)	CO2: 5% of measured value Temperature: ±0.25°C		
Gas Response Time	T90 < 30 secs		
Warming-up Time	<10 Secs after power-on		
Operating Condition	• Temperature: 0 ~ 50°C (32 ~ 122°F) • Humidity: 0 ~ 95%RH (non-condensing) • atm: 950 ~ 1000 mBar		
Lifetime	< 8 Years		
Power Consumption	5V (Max. 80mW)		
Calibration Certificate	Indivisual Certificate. Calibration with 5% CO2 calibration gas mixtures		
Calibration Method	One point calibration		
USB Port	USB 2.0 Type A Plug		
Output Signal	USB digital, CDC Device (AT Command)		
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.		

Application

- CO2 Incubator
- Food storage sites(refrigerators, freezers)
- · Bio-labs
- Building energy usage monitoring
- Medicine and medical goods storage sites
- Semiconductor production lines

Product Components

Model	Component
UA52- CO2-20	 UA52-CO2-20(1EA) USB Extension Cable 1.5 m(1EA) Indivisual 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