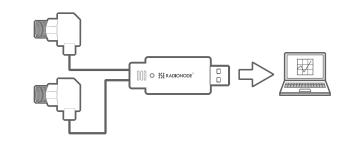## RADIONODE®

The most innovated data logger
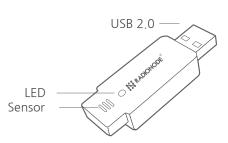
0-1000mV Signal Converter to USB

UA20-C

- 2 Channel 0-1000mV Analog to Digital
- Zero/Span Calibrated / Easy Scaler Setup
- Operating On Windows / Linux / MacOS
- AT Command Support
- PC Recording Software (Tapaculo Lite)
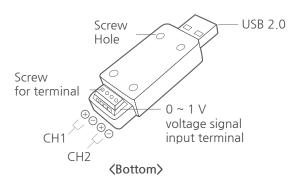- Android Recording App. (Tapaculo Mobile)

The UA20-C device converts 0-1000 mV voltage analog signal into digital data. It transmits digital information to host devices in real-time via the USB connector. It does not have a battery and a memory to store samples inside. The UA Series is automatically recognized as a serial port on the operating system and accessed using the AT command. Multiple USB connections of UA device could compose the multi-channel sensor. 128CH real time monitoring software, 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 a remote web monitoring system.
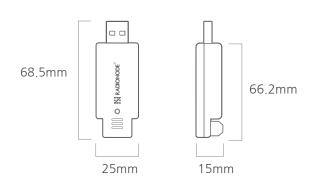
Hardware

USB 2.0

LED
Sensor

〈Front〉

Screw
Hole

USB 2.0

Screw
for terminal

0 ~ 1 V
voltage signal
input terminal

CH1

CH2

〈Bottom〉

Dimensions

68.5mm

66.2mm

25mm

15mm

Notice

- Download the Tapaculo Lite (monitoring software on PC) **from www.radionode365.com.**
- Download the Tapaculo Mobile (monitoring software on Android) from google play store.

Contact Information

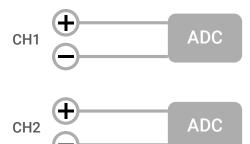- www.radionode365.com
- master@dekist.com

0-1000mV Signal Converter to USB

UA20-C Specifications

Power	5V(USB Power), 50mW
UA20-C Input 0-1V (2CH)	• Channel # : 2 • Accuracy: ± 0.08% F.S. • Resolution : 0.01mV • Sample Rate : 300ms/Channel
Sensing Interval	Min: 100ms
Scale Range Setup	Software Setting -99999.99 ~ 99999.99
Operating Range	• Temp : -40 ~ 80°C (-40 ~ 176°F) • Humidity: 5 ~ 95%RH
Internal Resistance	None
USB Port	USB 2.0 Type A Plug
Event Mode	Software Selection • MODE 1 NORMAL (PULL MODE) • MODE 2 LO/HI EDGE (Out Bound) • MODE 3 DIFF. CHANGE EVENT • MODE 4. LO/HI EDGE (In Bound)
LED	Device Status Indicator • RED KEEP ON : USB connection Failed • GREEN BLINK : Measuring Sensors
Input Signal Mode	0 ~ 1000 mV Only
Zero/Span Setup	Drift can be calibrated by Software
Software Support	*Tapaculo Mobile > 2CH recording software on Android devices *Tapaculo Lite > 32CH recording software on PC *Calibration Software > Calibrator that compensates measuring error.

Internal Block diagram

Product Components

Model	Component
UA20-C	• UA20-C(1EA/2CH 0-1000mV Converter)

Optional Accessories

Type	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