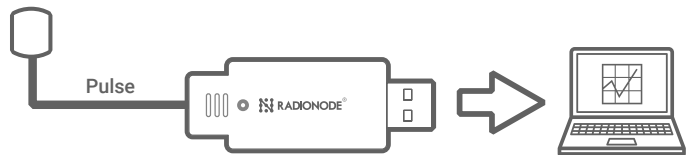




## Pulse Counter to USB

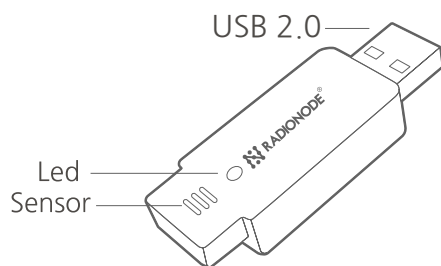
# UA20-D

- 1 Channel Pulse Signal Counter
- Operating On Windows / Linux / MacOS
- AT Command Support
- PC Recording Software (Tapaculo Lite)
- Android Recording App. (Tapaculo Mobile)

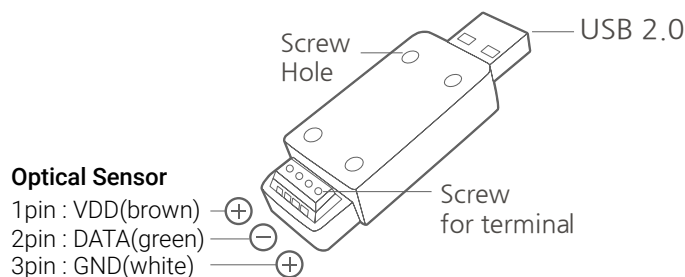


The UA20-D device transmits pulse signal into digital data. It transmits digital information to host devices in real-time via the USB connector. UA20-D counts pulse signal to sensor device. The UA Series is automatically recognized as a serial port on the operating system and accessed using the AT command. 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](http://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

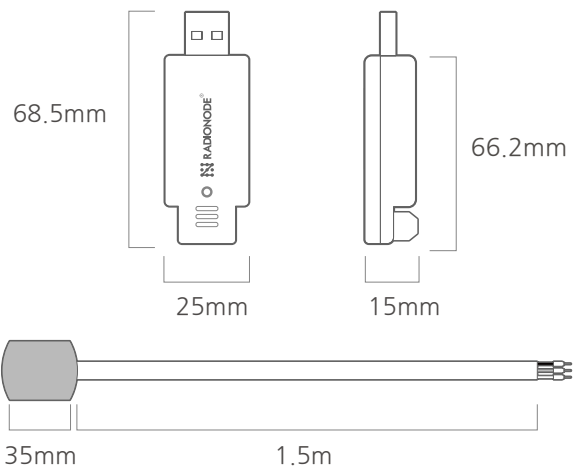


<Front>



<Bottom>

### Dimensions



### Notice

- Download the Tapaculo Lite (monitoring software on PC) from [www.radionode365.com](http://www.radionode365.com).
- Download the Tapaculo Mobile (monitoring software on Android) from google play store.

### Contact Information

- [www.radionode365.com](http://www.radionode365.com)
- [master@dekist.com](mailto:master@dekist.com)

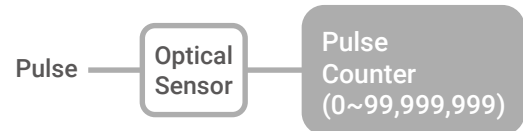


## Pulse Counter to USB

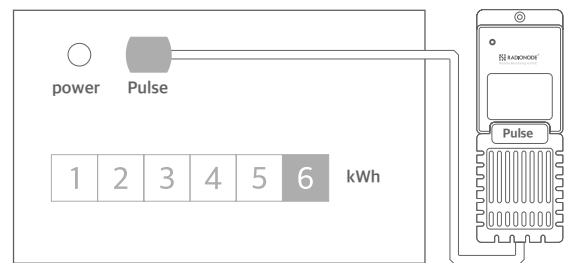
### UA20-D Specifications

|                         |  |
|-------------------------|--|
| Power                   | 5V(USB Power), 90mW  |
| External Sensor         | Included,<br>Optical Pulse Sensor  |
| Operating Range         | <ul style="list-style-type: none"> <li>Temp : -20 ~ 50°C (-40 ~ 122°F)</li> <li>Humidity: 5 ~ 95%RH</li> </ul>   |
| USB Port                | USB 2.0 Type A Plug  |
| LED                     | Device Status Indicator<br><ul style="list-style-type: none"> <li>GREEN BLINK : Measuring Sensors</li> </ul>   |
| Measurement Range       | <ul style="list-style-type: none"> <li>count 0 ~ 99,999,999 (Wrap Around)</li> </ul>   |
| Maximum Sampling signal | Up to 100 HZ   |
| Input                   | TTL, Pulse input   |
| Output                  | USB Digital(AT command)<br>ex> ATCD 1<br>ATCD 2  |
| Wh / Pulse              | User Define Parameter  |
| Software Support        | *Tapaculo Mobile<br>> 1CH recording software on Android devices<br>*Tapaculo Lite<br>> 128CH recording software on PC<br>*Calibration Software<br>> Calibrator that compensates measuring error. |

### Internal Block diagram



### Installation



### Product Components

| Model  | Component  |
|--------|--|
| UA20-D | <ul style="list-style-type: none"> <li>UA20-D (1CH Pulse Signal Counter) for electric power meter</li> <li>Optical sensor (1.5m, 1ea)</li> </ul> |

### Optional Accessories

| Type                                 | Model Number | Spec.  |
|--------------------------------------|--------------|--|
| Sensor data transmitter via Ethernet | RN171 WC     | <ul style="list-style-type: none"> <li>Supports cloud monitoring</li> <li>Supports MODBUS TCP/ HTTP data transmission</li> <li>Power: PoE 48V, IEEE802.3af/at, DC6V, 1.9W</li> </ul> |
| Sensor data transmitter via WiFi     | RN172 WC     | <ul style="list-style-type: none"> <li>Supports cloud monitoring</li> <li>Supports MODBUS TCP/ HTTP data transmission</li> <li>Power: DC6V, 2.4W</li> </ul>                          |