

# INSTALLATION INSTRUCTIONS

## IOT Buddy

Power Over Ethernet (POE), Ethernet,  
or Wireless 2.4 GHz



### PRODUCT APPLICATION LIMITATION:

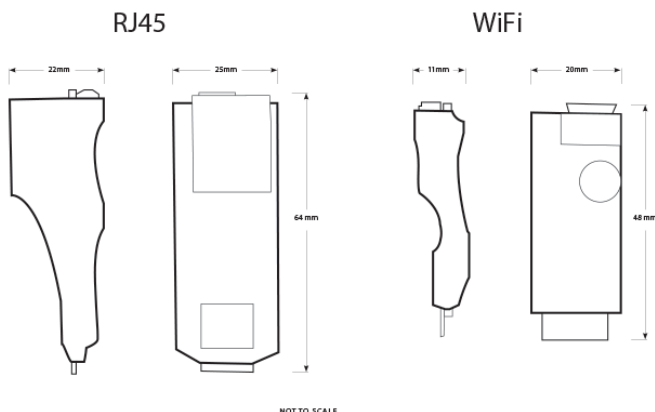
Senva products are not designed to be used as the lone device for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva believes a systems approach to safety is necessary for these types of applications. Senva is not liable, in whole or in part, for any claims or damages arising from such uses.

## IMPORTANT!

### IMPORTANT WARNINGS

- Only qualified trade installers should install this product
- This product is not intended for life-safety applications
- Do not install in hazardous or classified locations
- The installer is responsible for all applicable codes
- De-energize power supply prior to installation or service
- Forming a "drip-loop" (allowing tubing to dip below the level of the sensor hose barbs) is recommended to protect the sensor from damage caused by condensation.

## DIMENSIONS



## INSTALLATION

1. Wire device according to wiring diagrams section.
2. Once powered, the WiFi version of the IoTBuddy will host an access point for 5 minutes. To re-enable the access point, press the button on the IoTBuddy.

### For set up with smart phone:

1. Scan the QR code on the label of the IoTBuddy device. Join the network.
2. Open a browser; go to <https://4.3.2.1>
3. Your browser may indicate a non-private connection. Please proceed. You may need to hit "refresh" on your browser.
4. Log in using the default credentials:
  - username: admin
  - password: admin
5. Navigate using the 3-line "hamburger" menu on the top right to set up network, datapoints, and cloud service information.

### For set up with computer:

1. If you are setting up the device using a computer, open your WiFi network page and find the IOTB that matches the serial number printed on your IoTBuddy label.
2. Enter the network security key: password
3. Go to <https://4.3.2.1>
4. Your browser may indicate a non-private connection. Find the "proceed" button near the bottom of the warnings; you may need to click the subtle link labeled "advanced" or "show more" first.
5. Log in using the default credentials:
  - username: admin
  - password: admin
6. You may change your username and password on the first screen. Once you click "save", you will be logged out and prompted to log in again with the new credentials.
7. Access the user interface guide below with the QR code for network setup.



## LED STATUS/INDICATION

### Normal Mode:

- Off = Not Configured / No power
- Steady = Configured / Powered, not connected to network
- Slow Blink = Connected to network
- Fast Blink = Connected to cloud service

### Setup Mode:

- Off = Button pressed, commissioning mode enabled
- Slow Blink = Button held for 3 seconds, reboot device
- Fast Blink = Button held for 10 seconds, initiate factory reset

## WIRING DIAGRAMS

	BLACK	Ground
	RED	24VDC/AC
	WHITE	Analog 1
	YELLOW	Analog 2

	BLACK	Ground
	RED	24VDC/AC
	WHITE	RS485A(+)
	YELLOW	RS485B(-)

## SPECIFICATIONS

Power supply	4 Wire Flying Leads	12-30VDC/24VAC, 1W max, 100mA max. POE power to Sensor: 24vdc 5W max.
Analog Inputs	2 Programmable Inputs	0-10V and 4-20mA (selectable) 10/100 BASE-TX IPV4 Static or DHCP
Ethernet	RJ485	IPV6 Static or Dynamic via DHCPv6 or SLAAC BACnet/IP, Modbus/TCP (~ 100 Points Maximum) Cloud Service Connection (~ 20 Points Maximum)
Wi-Fi	2.4 GHz	<p><b>AP Mode:</b></p> <p>Supports Open, WPA2, WPA-WPA2 Mixed, WPA3, WPA2-WPA3 Mixed networks IPV4 DHCP or Static IP One client Wi-Fi Connection with configurable password Uses Fixed IP for access point during initial setup WPA2-PSK (AES). 30M Range, in unimpeded areas</p> <p><b>Station Mode:</b></p> <p>Supports Open, WPA2, WPA-WPA2 Mixed, WPA3, WPA2-WPA3 Mixed networks IPV4 Static or DHCP IPV6 Static or Dynamic via DHCPv6 or SLAAC Configurable SSID lookup Auto-reconnect after network or power loss BACnet/IP, Modbus/TCP (~ 100 Points Maximum) Cloud Service Connection (~20 Points Maximum) 30M Range, in unimpeded areas</p>
Operating Environment	Operating Temperature Storage Temperature Humidity Altitude	-40 to 158°F (-40 to 70°C) -40 to 185°F (-40 to 85°C) 0 to 95% RH ( non-condensing) 2000 Meters
Enclosure	Wi-Fi Model RJ45	~ 1" h x 1" w x 0.5" d ~ 2" h x 1" w x 1" d