INSTALLATION INSTRUCTIONS

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

0-10V or 4-20mA Analog Signals

Modbus RTU

2.4 GHz WiFi

Ethernet

POE

CE

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.

DIMENSIONS
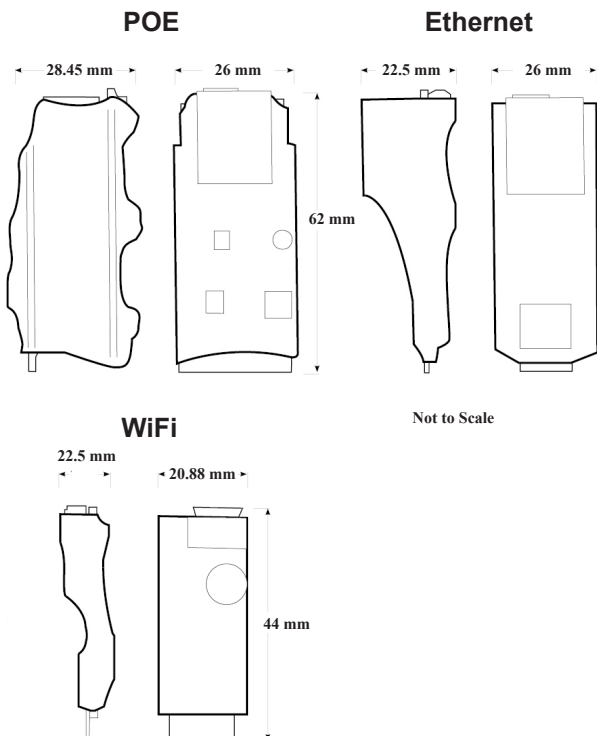
POE

28.45 mm   26 mm

62 mm

Ethernet

22.5 mm   26 mm

Not to Scale

WiFi

22.5 mm
20.88 mm

44 mm

INSTALLATION

1.Wire device per the wiring diagrams (See Page 2).

2. Once powered, the wireless IoTBuddy will host an access point for 5 minutes. To re-enable the access point, press the button on the IOTBuddy.

To connect using the wireless IOT Buddy QR Code:

If you are setting up the device with a smart phone, scan device QR code to access the access point to set up the device. The user interface guide can be access by scanning the QR code below.

To manually connect to the wireless IOT Buddy:

1.Open your Wi-Fi network page and find the IOTBuddy access point that matches the serial number printed on your IoTBuddy label. Connect using the Password: **password**

2. Go to https://4.3.2.1, then follow steps 3-4 of the next section.

To connect to the web interface of the IOT Buddy:

1. Determine the IP Address of the IOT Buddy and connect to the same network. The Senva Sync App can be used to retrieve or set the IP Configuration.

See the user interface guide for help with network setup and the Senva Sync App. (visit www.senvainc.com or scan the QR code below).

2. In a browser, navigate to https:// and the IP address assigned.

3. Your browser may indicate a non-private connection. Find the "proceed" button near the bottom of the warnings; click the link labeled "advanced" or "show more".

4. Log in using the default credentials:

Username: **admin**   Password: **admin**

LED STATUS/INDICATION

Normal Mode:
Off=Not Configured
Steady= No Connection
Slow Blink = Connected to device
Fast Blink= Connected to cloud service

Setup Mode:
Off=Button Held (Hold for 3 seconds)
Slow Blink = Commissioning Mode
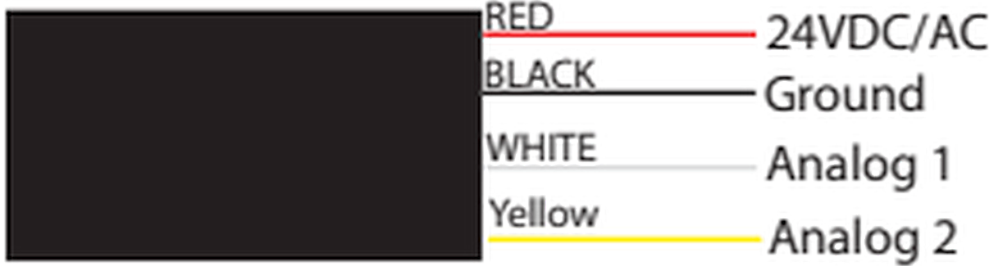Fast Blink= Hold to Initiate Factory Reset

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

WIRING DIAGRAMS

Analog Input

RED	—	24VDC/AC
BLACK	—	Ground
WHITE	—	Analog 1
Yellow	—	Analog 2

Comms Input

RED	—	24VDC/AC
BLACK	—	Ground
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)
Ethernet	RJ485	10/100 BASE-TX
		IPV4 Static or DHCP
		IPV6 Static or Dynamic via DHCPv6 or SLAAC
Wi-Fi	2.4 GHz	**AP Mode:**
		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).
		Station Mode:
		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
Operating Environment	Operating Temperature	-40 to 158ºF (-40 to 70ºC)
	Storage Temperature	-40 to 185ºF (-40 to 85ºC)
	Humidity	0 to 95% RH (non-condensing)
	Altitude	2000 Meters
Enclosure	Wi-Fi Model	~ 1"h x 1"w x 0.5"d
	RJ45	~2"h x 1"w x 1"d
	Type	TBD - ESD/Shorting Protected small enclosure