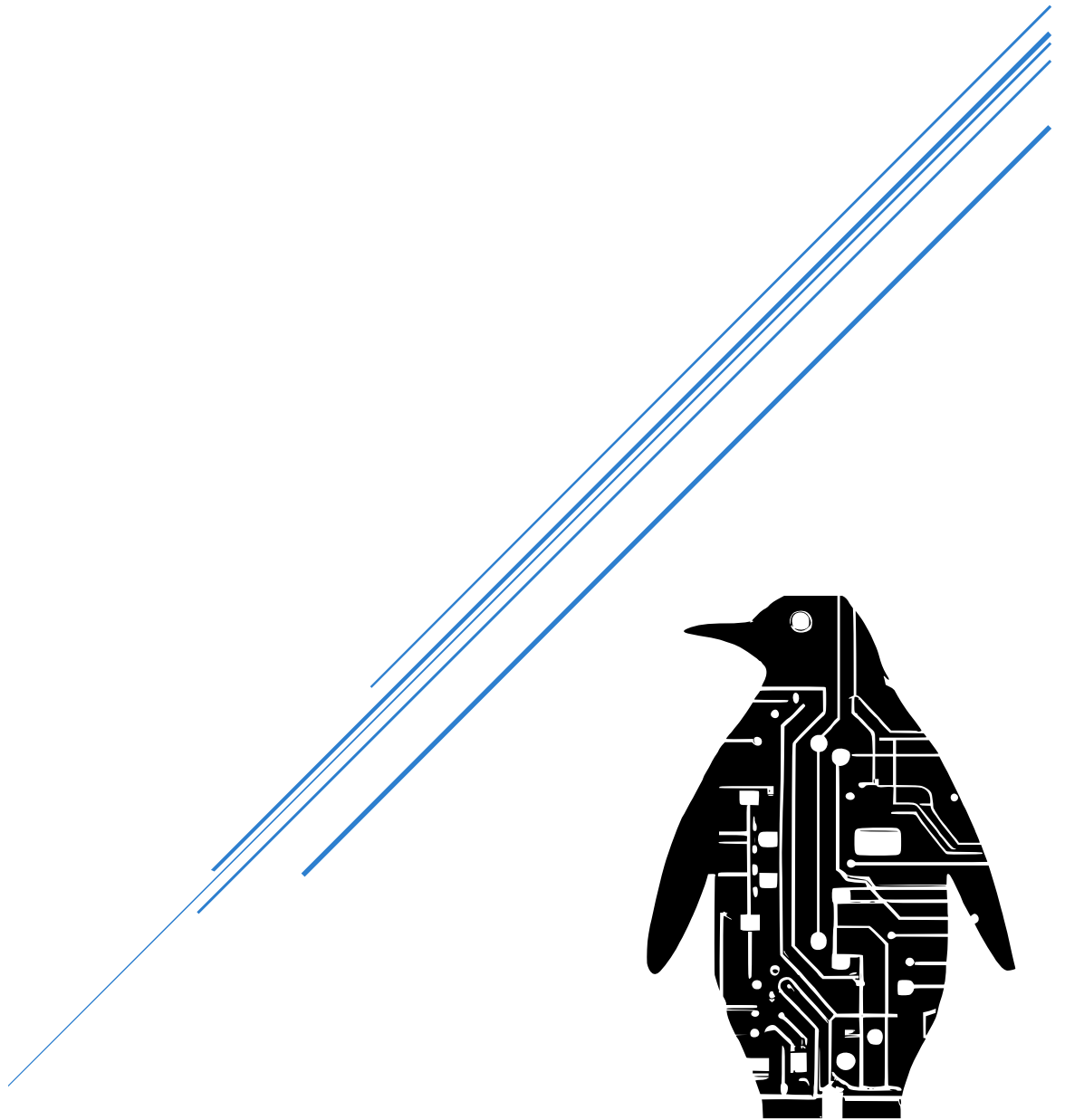


# FIRE PUMP SENDER USER GUIDE

Version 3



Brandco Connected  
February 2025

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## Basics

*Learn how to power and charge*

### Power

There is only one external button located on the top of the unit by the antenna.

1. Press the power button, and the power status led will light green to indicate on. Wait 2 seconds for self checks to complete. Status light will flash green once when complete.
2. Normal operation starts and status light will flash blue while pressure is being transmitted.
3. To turn off press the power button again.



### Charging

To charge connect the charge cord to a USB power adapter and place the circle end by the charge port. It will magnetically attach itself. The charge light will light orange while it charging and turn off when it is fully charged.



## Sensor connections

*Suction, discharge and tach connections*

### Pressure sensors

The suction side has a -15 to 215 psi range sensor to handle pumps drawing from a tank.

The discharge side has a 0-500 psi range sensor to handle high pressures.

The sensors are labeled on the transducer as well with their range. If you have removed them take care to connect them to the proper sensor connection or you will get erroneous readings.

The Pump Sender will not operate without both the Suction and Discharge sensors connected.



The tach sensor is optional and can be removed if desired.



## Accessing internal controls



1. Unscrew the sensor cords and pull straight out to remove them. Remove the nuts on the sensor connectors using a 11mm socket.
2. Remove the black endcap by unscrewing the 4 screws. Screws are self-retaining in the endcap so loosen one halfway until you feel resistance then move to the next. Continue until they are fully removed.
3. Slide the circuit board out 1/2" to see the buttons.

# Device group ID's

*Understand different group numbers*

## Setting Device Group

Group ID's are the way to limit communication between multiple sets of Sender/Display sets. Devices will only communicate with other devices that have the same Group ID number. Senders and Displays have a default Group ID set to 1. If you have multiple sets and do not want them to talk to each other, set a different ID on each set.

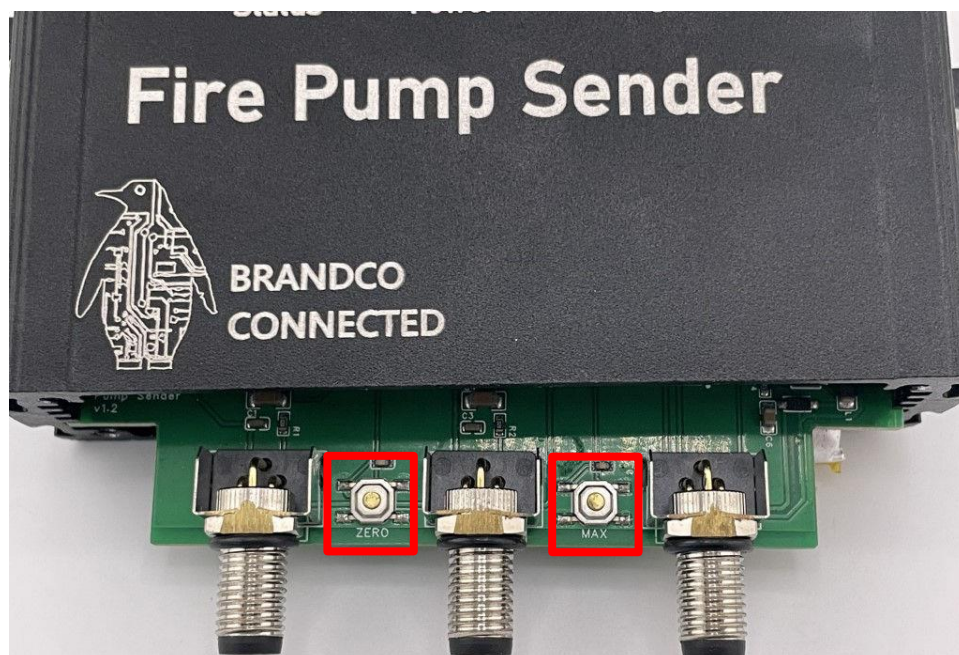
### Option 1 - Use the display

The remote display can set Group ID's on connected nodes and is a simpler method. Refer to the display guide on setting Device Group ID's for more information.

### Option 2 - Use the hardware button

See section on Accessing internal controls to gain access to hardware buttons.

1. With endcap removed, reconnect suction/discharge pressure sensors and power on.
2. Click the MAX button to increase the Group ID number by 1. The status light will flash yellow the number of the group. For example, pressing once will change to group 2 and the light will flash two times.
3. Once you reach group 8, it will restart back at group 1.
4. Press and hold the MAX button for 1 sec to save your changes.
5. Release the button when the status light flashes green to confirm it is saved.



## Radio range settings

*How to increase range if needed*

### Setting radio range

Senders ship with the range set at normal which is 800' with out obstructions impeding the signal. It can be increased for special case scenarios that need additional distance.

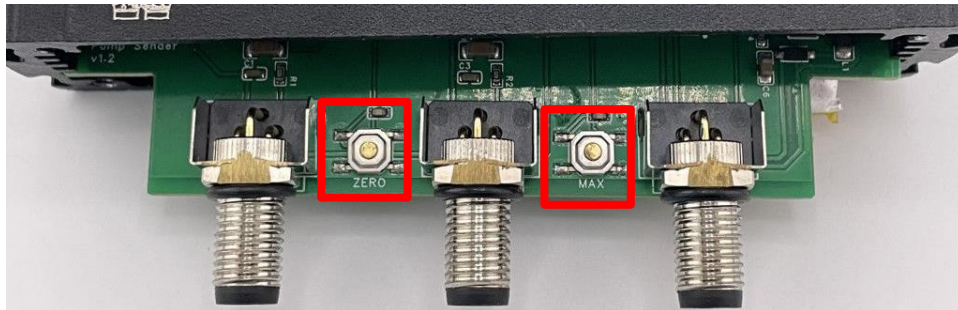
#### Option 1 - Use the display

The remote display can set radio range on connected nodes and is a simpler method. Refer to the display guide on setting radio range for more information.

#### Option 2 - Use the hardware button

See section on Accessing internal controls to gain access to hardware buttons.

1. Click the ZERO button to increase to the next higher level setting. The status light will flash yellow to indicate the range setting you are on (one flash = level 1, two flash = level 2, ...). Once you reach the highest level setting the next press will be back to the start at normal.
2. Press and hold the MAX button for 1 sec to save your changes.
3. Release the button when the status light flashes green to confirm it is saved.



#### Range distance and transmission rate chart:

| Range | Transmit rate        | Notes                       |
|-------|----------------------|-----------------------------|
| 800'  | 3 times per second   |                             |
| 1400' | 2 times per second   |                             |
| 2000' | Once every 2 seconds | Reset display after setting |
| 3000' | Once every 3 seconds | Reset display after setting |

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**Important:** Display unit and Sender **MUST** have the same setting to communicate

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## Troubleshooting

*Learn what the status light is trying to say*

On powering up the system performs self checks. This takes about 1 second. When complete the status light will turn green briefly before beginning to transmit pressure.

### Error status lights

**Status blinks yellow/orange 3 times** – low battery voltage. The battery is too low for proper operation. It will take approximately 8 hours to fully charge the battery from this condition.

**Status blinks red at start** - sensor is not detected. Check your sensor cord connection and restart.

If sensor 1 (suction) is not detected it will flash red once then repeat.

If sensor 2 (discharge) is not detected it will flash twice quickly then repeat.



Try the following to ensure a good connection:

- Over tightening the connector is a common cause of sensor failure. Loosen the connector a half turn and restart the unit to see if the issue continues.
- Disconnect the cord from the body by unscrewing the quick connect. Check the cord end for damaged wires. If it looks good, reinsert and screw back in finger tight.
- Check the transducer. Did the screw on top come loose? Any wire damage?

If there is any wire damage causing the issue, please contact us and a new cord will be sent to replace it. It's a simple 1 screw and 30 seconds to swap it out.

If there is no obvious damage it is likely it will need returned for repairs. Please use the support form or email for a replacement.