



Brandco Connected

V2.2/2.3 FIRMWARE RELEASE NOTES

DISPLAY

- ❖ **Battery Level** – Press right on joystick to see battery level for display and connected nodes.
- ❖ **Test recordings** have been relabeled and no longer have a static or residual label. They are labeled Record# 1 to 5. Depending on the sender unit type, the results will be labeled as PSI or GPM.
- ❖ Display will auto recognize a Pressure or Flow sender and display information accordingly. The node address and type will be shown immediately above the current PSI or GPM for multi-node displays.
 - Pressure senders will show current PSI in large font, with the current recording record in a box. Advance to the next recording slot by double clicking. The last recording will be shown at the top, and the current recording below it.
 - Flow Senders will show current GPM in large font with corresponding PSI in the top line for multi nodes. For a single Flow Sender it will display next to the GPM reading. The current recording slot will be shown in a box.
- ❖ **User Preferences Menu:** Joystick left press accesses user preference setting menu.
 - **Usage:** With joystick press right to scroll through settings, up/down to change values. Settings are applied instantly. Press left to exit menu without saving applied settings. Press center to Save and exit menu.
 - **Settings:**
 - Backlight mode: off, on or auto. Off will result in longest battery life if backlight is not needed.
 - Screen contrast: darken or lighten the screen print
 - Radio range setting: added user menu to set longer range settings for radio
 - **Settings:**
 - ◆ Normal: 1000' line of sight, transmits 4x/sec
 - ◆ + Long: 1400' line of sight (or 1000' through 16 houses), transmits 3/x sec
 - ◆ ++ I wouldn't: 2000' line of sight, transmits 1x every 2sec
 - ◆ +++ I got all day: 4000' line of sight, transmits 1x every 3sec
 - **Important Note: Display unit and sender MUST have the same setting to communicate**
 - Group Number: a user selectable group number can be set to prevent the display from receiving information from other senders.
 - Default setting is 1 – use the joystick to select any number up to 125.
 - **Important Note: Display unit and sender MUST have the same setting to communicate**
 - Target PSI alert: display will show a visual alert if the current node pressure is 25% less than the last recorded pressure
 - Notes:
 - *A single node will display an alarm bell icon left of the PSI display*
 - *Multiple nodes will invert the PSI display area - PSI will show as white in black box when target pressure drop is reached*
 - *Only pressure senders will trigger the alert - setting has no effect on flow senders*
 - *Alert is based on last recorded pressure that is shown at top of node readings - advancing to a different test recording slot will base alert on that pressure if it is not zero*
 - Button Double Click Speed: lower or increase the speed required for a double click to advance tests.
 - Button Long Press time: lower or increase the amount of time the button must be held to record the current pressures.
 - Menu Lock: A menu lock code can be set to prevent access to menu settings. Once set to enabled, press right on the joystick to access the set screen. Use the joystick up/down to select a letter, right to move to the next space. Just like setting your initials on a classic arcade game.

- ❖ **Diagnostics screen:** Center press the joystick to access diagnostics screen for node count, light level reading, node radio signal strength (SNR & RSSI) and packet count received. (*Tip: remove the rubber joystick cap by pulling it straight up if the center press is hard to achieve.*)
 - SNR and RSSI explained:
 - Signal Noise Ratio (SNR): ratio between the received power signal and the surrounding interfering signal sources. Values range from -10 to +13. Below 0 some packets will be missed possibly resulting in temporary LOST COMM displays.
 - Received Signal Strength Indicator (RSSI): is a measurement of how well your device can hear a signal. Values range from -50 to -130, -50 to -90 is very good. At values from -120 to -130 some packets will be missed possibly resulting in temporary LOST COMM displays.

PRESSURE SENDER

- ❖ Address zero should not be used. If Address Selector dip switch 1 & 2 are both down (off) the node will not show on the display. Move selector 1 to up position for address 1.
- ❖ **User Preferences Menu:** Joystick center press now accesses user preference settings. (*Tip: remove the rubber joystick cap by pulling it straight up if the center press is hard to achieve.*)
 - *Note: sender does not transmit while in the menu*
 - **Usage:** With joystick press right to scroll through settings, up/down to change values. Settings are applied instantly. Press left to exit menu without saving applied settings. Press center to Save and exit menu.
 - **Settings:**
 - Backlight mode: off, on or auto. Off will result in longest battery life if backlight is not needed.
 - Screen contrast: darken or lighten the screen print
 - Radio range setting: added user menu to set longer range settings for radio
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 - **Important Note: Display unit and sender MUST have the same setting to communicate**
 - Group Number: a user selectable group number can be set to prevent the display from receiving information from other senders.
 - Default setting is 1 – use the joystick to select any number up to 125.
 - Menu Lock: A menu lock code can be set to prevent access to menu settings. Once set to enabled, press right on the joystick to access the set screen. Use the joystick up/down to select a letter, right to move to the next space. Just like setting your initials on a classic arcade game.

FLOW SENDER

- ❖ Overview: Flow (GPM) is calculated using standard velocity pressure formulas found in NFPA291. GPM is calculated based on velocity pressure from a gauge port, outlet diameter and coefficient /or k-factor.
- ❖ Based on manufacture and diameter, large outlet (4" up) correction factor is applied automatically.
- ❖ The flow sender will measure PSI and calculate flow in GPM if flow device parameters are entered. The flow outlet diameter and coefficient (or k-factor) must be set to calculate GPM. If either are zero, the Flow Sender will show like a normal Pressure Sender on the Display unit.
- ❖ Address zero should not be used. If Address Selector dip switch 1 & 2 are both down (off) the node will not show on the display. Move selector 1 to up position for address 1.
- ❖ **User Preferences Menu:** Joystick center press now accesses user preference settings. (*Tip: remove the rubber joystick cap by pulling it straight up if the center press is hard to achieve.*)
 - *Note: sender does not transmit while in the menu*
 - **Usage:** With joystick press right to scroll through settings, up/down to change values. Settings are applied instantly. Press left to exit menu without saving applied settings. Press center to Save and exit menu.
 - **Settings:**

- Backlight mode: off, on or auto
- Screen contrast: darken or lighten the screen print
- Flow device manufacture: Selection list of common manufactures for discharge devices. Select other if manufacture not listed.
- Diameter: enter the diameter of the outlet being flowed
- Coefficient: enter the coefficient from manufacture data sheets for the flow device
- K-factor: some manufactures (ex. Hose Monster) provide coefficient and k-factor information. K-factor if entered will take precedence over coefficient and be used in GPM calculations. If K-factor is unknown, leave setting at 0.00
- Radio range setting: added user menu to set longer range settings for radio
 - **Settings:**
 - ◆ Normal: 1000' line of sight, transmits 4x/sec
 - ◆ + Long: 1400' line of sight (or 1000' through 16 houses), transmits 3/x sec
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