



# Brandco Connected

## V2.0 FIRMWARE RELEASE NOTES

### DISPLAY

- **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 record will be shown in a box.
- **Battery screen** also shows battery level for connected nodes
- **Diagnostics screen:** While on battery screen - Double click left with joystick to access diagnostics screen for node count, light level reading, node radio signal strength (SNR & RSSI) and packet count received.
  - 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.
- **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.*)
  - **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
    - 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

### 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

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## FLOW SENDER

- 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 Sender additional settings:**
    - 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.
    - **Settings:**
      - 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