PERTRONIC F100 IN-PANEL CTU INSTALLATION

with Enhanced Information (In-Built SPIB)

1. **Installation**
    a. Install CTU on to Pertronic F100 Fire Alarm Panel Masterboard using supplied stand-offs

2. **Data Interface Connections (Loom / RS-485)**
    a. Connect 5 wire loom (SGD Ribbon) on CTU board C2 connector (cable to the right)
    b. Connect to F100 Masterboard 5 wire loom connector (cable to the bottom)
    c. Connect 3 wire cable to CTU SGD Port 1 (A,B,Neg)
    d. Plug the 3 wire/4 pin connector to the F100 Masterboard "Internal RS-485" pins

3. **Mains Power Supply (24v DC)**
    a. Connect one end of supplied 2 wire cable in to DC input on CTU
    b. Connect to the 24v DC output on the F100 Masterboard

4. **Backup CTU Battery (2x 6v 1.3ah)**
    a. Connect battery leads in to BATT input on CTU
    b. Attach to batteries placed behind F100 Masterboard batteries, connect batteries with supplied link
    c. Note light will momentarily illuminate red when charging or running on batteries

5. **CTU Aerials**
    a. Dual aerials required. Connect aerial flyleads/cables to both the Main and Diversity connectors on the CTU
        i. Dome Antenna – Install aerial in to knockout hole. Feed leads through panel, then washer and nut. Connect cabling to CTU. Screw washer and nut tight.
        ii. Patch Antenna - Run cabling through top of F100 panel and mount following '4G LTE Aerial Installation' recommendations (approx. 150-200mm apart). Temporarily fix aerials to window ready for commission testing.

6. **Commissioning Tests**
    a. Comms light illuminates solid green to show CTU is connected to the cellular network
    b. Contact office on 03 341 0464 to test and commission the CTU and complete the connection to Fire & Emergency NZ.

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