PERTRONIC F100 IN-PANEL CTU INSTALLATION
with Enhanced Information

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" connector

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 Super Capacitor (22v)**
   a. Connect 3 way Super Cap leads on to pins between DC and BATT
   b. Securely attach the Super Capacitor to the panel using tape and screws
   Note light will momentarily illuminate red when charging or running on capacitor
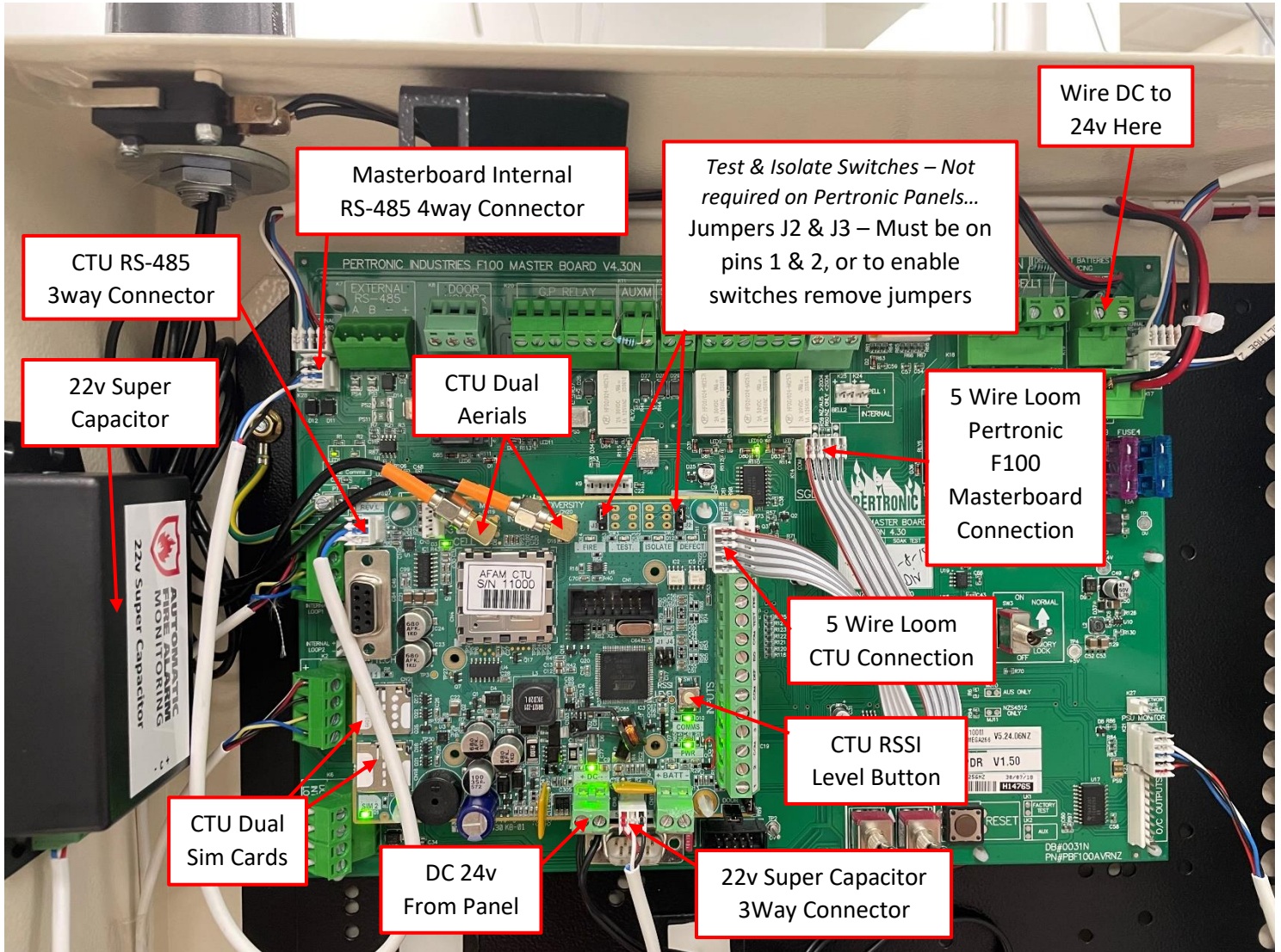
5. **CTU Aerials**
   a. Dual aerials required. Connect aerial flyleads/cables to both the Main and Diversity connectors on the CTU
      i. <u>Dome Antenna</u> – Install aerial in to knockout hole. Feed leads through panel, then washer and nut. Connect cabling to CTU. Screw washer and nut tight.
      ii. <u>Patch Antenna</u> - 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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PERTRONIC F100 IN-PANEL
with Enhanced Information

Wire DC to 24v Here

Masterboard Internal RS-485 4way Connector

Test & Isolate Switches – Not required on Pertronic Panels… Jumpers J2 & J3 – Must be on pins 1 & 2, or to enable switches remove jumpers

CTU RS-485 3way Connector

5 Wire Loom Pertronic F100 Masterboard Connection

22v Super Capacitor

CTU Dual Aerials

5 Wire Loom CTU Connection

CTU RSSI Level Button

CTU Dual Sim Cards

DC 24v From Panel

22v Super Capacitor 3Way Connector

Notes:

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