PERTRONIC F4 IN-PANEL CTU INSTALLATION

1. **Installation**
   a. Connect 5 wire loom (SGD Ribbon) on F4 Masterboard SGD Connector (cable to the left)
   b. Install CTU on to Pertronic F4 Fire Alarm Panel Masterboard using supplied stand-offs
   c. Screw AC:DC Supply Board to F4 Masterboard earth stud

2. **Data Interface Connection**
   a. Connect 5 wire loom (SGD Ribbon) on CTU board C2 connector (cable to the right)

3. **Mains Power Supply (12v DC)**
   a. Connect 2 wire power cable from DC input on CTU to 2 pin AC:DC Supply Board
   b. Connect 2 wire transformer cable to 3 pin AC:DC Supply Board
   c. Connect 3 pin plug from AC:DC Supply Board to F4 Masterboard

4. **Backup CTU Battery (6v 1.3ah)**
   a. Connect battery leads in to BATT input on CTU
   b. Attach to 6v 1.3ah battery placed under Masterboard
   c. You will need to bend the side of the panel so the panel battery can move along and allow space for the CTU battery.
   d. Note light will momentarily illuminate red when charging or running on battery
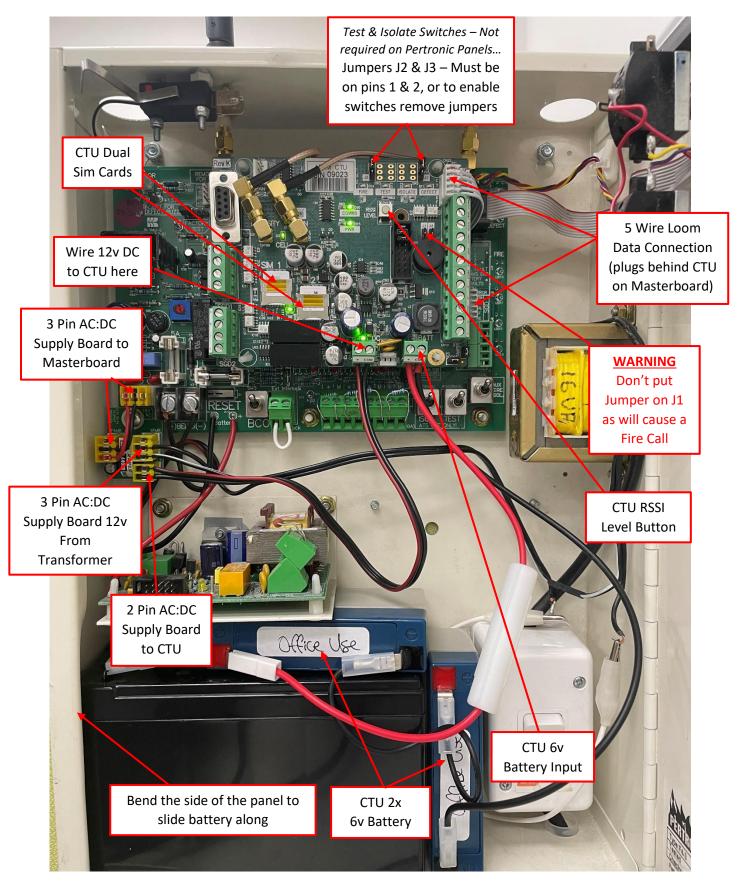
5. **CTU Aerials**
   a. Dual aerials required. Connect aerial flyleads/cables to both the Main and Diversity connectors on the CTU
      i. <u>Fixed Antenna</u> – Install bulkheads at top of panel following '4G LTE Aerial Installation' recommendations (approx. 150-200mm apart). Mount fixed aerials on top of panel vertically using 2x 100mm extension flyleads.
      ii. <u>Cabled Antenna</u> - Run cabling through top of F4 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.

PERTRONIC F4 IN-PANEL

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

CTU Dual Sim Cards

Wire 12v DC to CTU here

3 Pin AC:DC Supply Board to Masterboard

3 Pin AC:DC Supply Board 12v From Transformer

2 Pin AC:DC Supply Board to CTU

5 Wire Loom Data Connection (plugs behind CTU on Masterboard)

WARNING Don't put Jumper on J1 as will cause a Fire Call

CTU RSSI Level Button

CTU 6v Battery Input

Bend the side of the panel to slide battery along

CTU 2x 6v Battery