



Pertronic F100 In Panel CTU Rev M 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. Plug the 3 wire cable to the CTU RS-485 connector pins
- d. Plug the 3 wire/4 pin connector to the F100 Masterboard "Internal RS-485" connector

3. Mains Power Supply (12/24v 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 (22.8v) (THIS IS IN PLACE OF BATTERY, DON'T USE BOTH)

- a. Connect 3 way Super Cap connector on to the Super Capacitor
- 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. 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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