

# **BENSAN BT1 IN-PANEL**

# **CTU INSTALLATION**

## **1. Installation**

- a. Install CTU on to Bensan BT1 Fire Alarm Panel Masterboard using supplied stand-offs

## **2. Data Interface Connection**

- a. Connect 5 wire loom (SGD Ribbon) on CTU board C2 connector
- b. Connect to 5 wire loom connector Bensan BT1 Masterboard

## **3. Mains Power Supply (24v DC)**

- a. Connect one end of supplied positive (fused) and negative cable in to DC input on CTU
- b. Connect to the 12v DC output on the Bensan BT1 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. Fixed Antenna – 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 200mm extension flyleads.
  - ii. Cabled Antenna - Run cabling through top of Bensan BT1 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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