DIGIAIR PSU QUICK GUIDE AND INSTRUCTION MANUAL

INSTALLATION

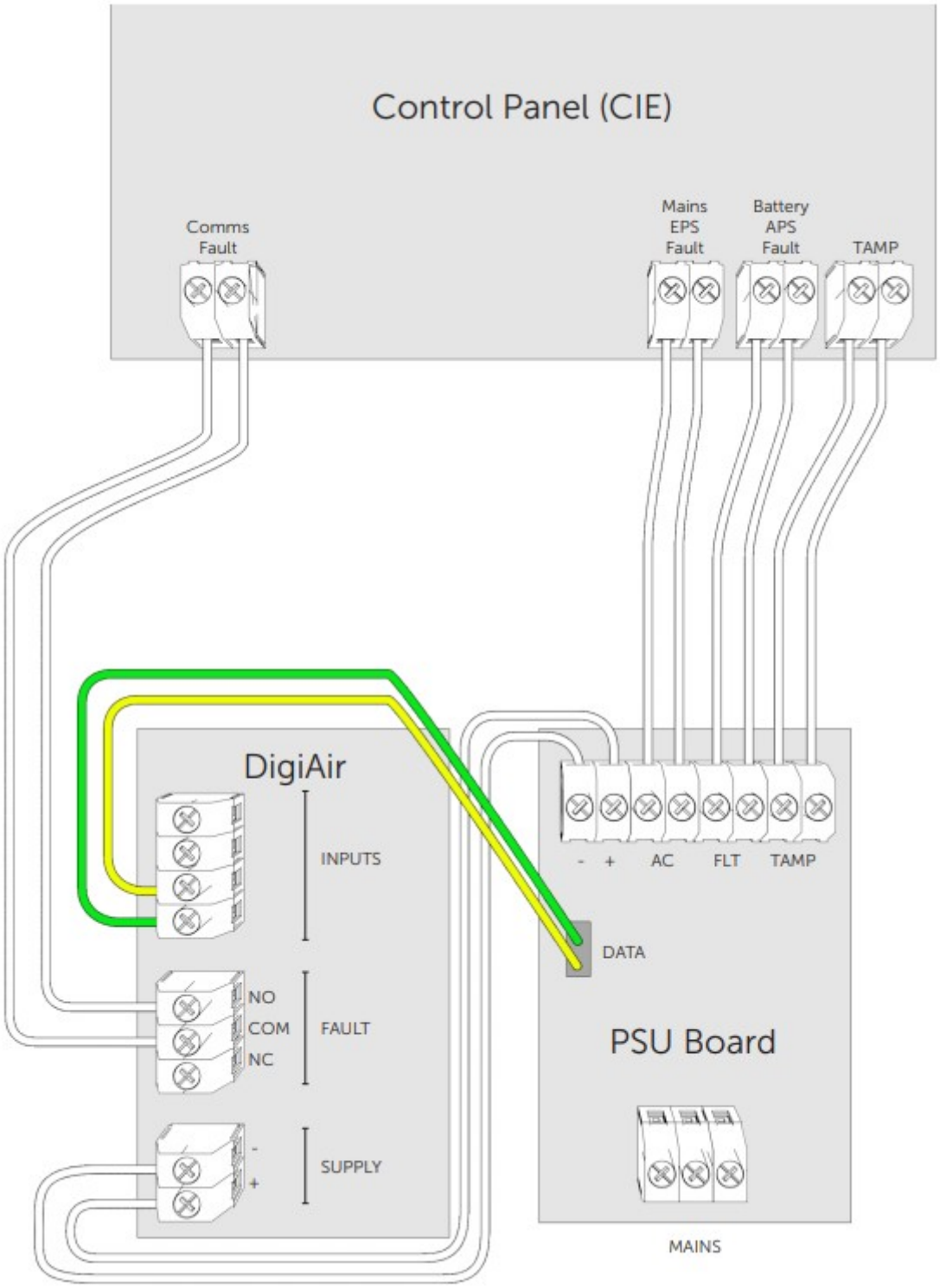
CONNECTED • SECURE • LIVE

DigiAir PSU Quick Guide and Instruction Manual

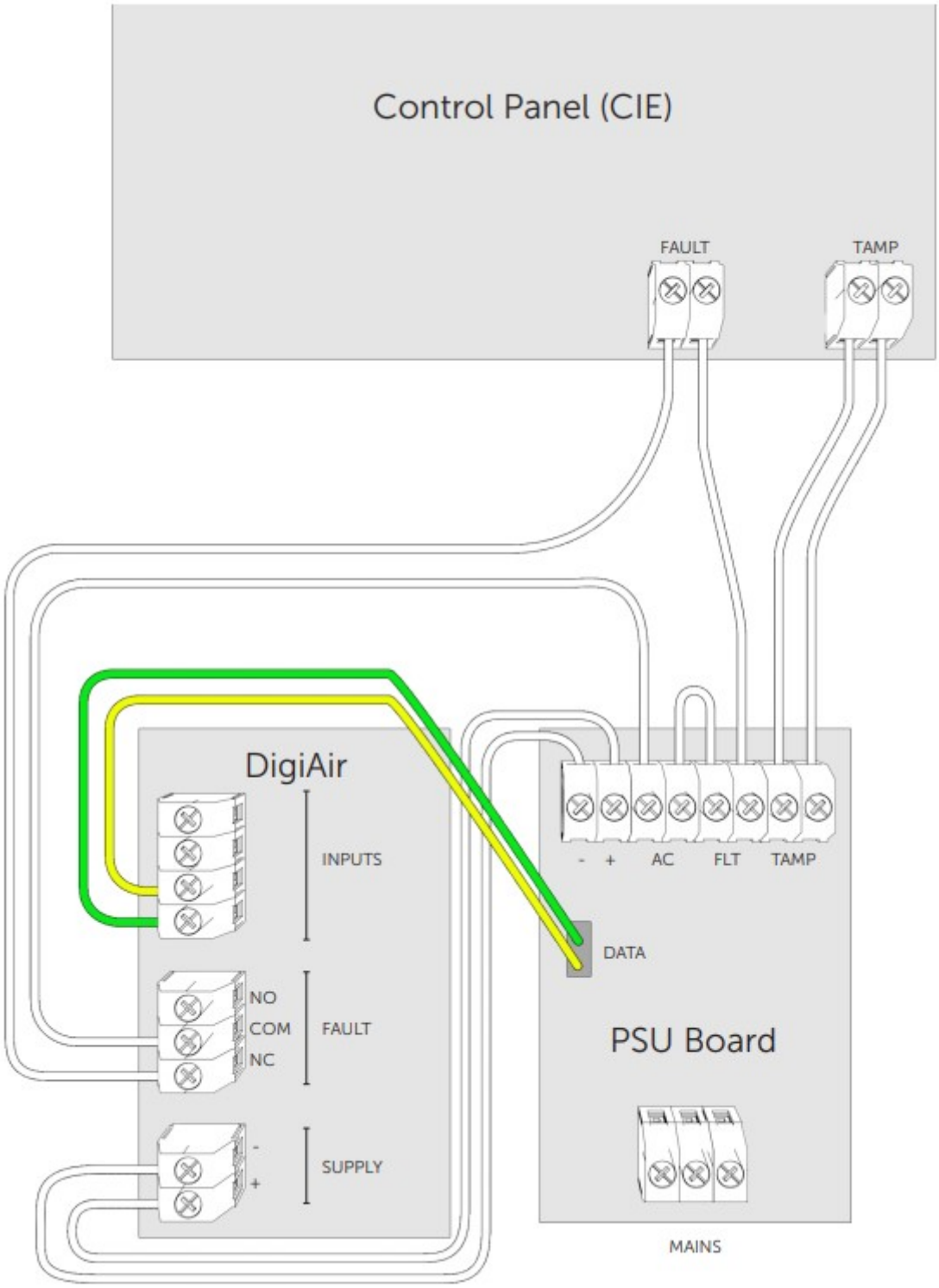
Installation

Refer to the DigiAir Quick Guide for triggering and Dial Capture connections.

Figure 1 - Power, Tamper and Fault Wiring between the CIE, PSU and DigiAir (3 fault inputs in panel).



Where the CS1510 will be used with small CIE, the CIE is unlikely to have 3 separate fault inputs. This diagram shows how to wire all of the PSU & DigiAir fault outputs (Mains, Battery & DigiAir) to one panel fault input. Refer to the DigiAir Quick Guide for triggering and Dial Capture connections.



Mains failure and mains restore (on the AC FLT output) will be reported by the PSU to the CIE in less than 10 secs. Note that Mains failure reporting (by the CIE) to the ARC may be delayed for up to 1 hour EN50131 standard. Refer to the CIE manual for its programming/setup details. When the wiring between the PSU, CIE and DigiAir is completed, plug the battery into the BAT connector on the PSU board and connect mains power to the L, N & E terminals.

The CS1510 is a compact type A Power Supply (PSU) with battery back-up that is designed to house and power a DigiAir, and to be mounted with its associated Control Panel (CIE). The CS1510 Power Supply is suitable for use in systems installed to conform to PD 6662:2010 at Grade 1 & 2, and environmental class 1 & 2.

The CSL5652/5653 is the PSU with a DigiAir already fitted with its power wiring connected. The CS1510 is the same PSU but is supplied without a DigiAir.

This PSU is designed to supply power to a DigiAir only. Do not use the PSU to supply power to a DigiAir AND
other equipment.

When fitting a DigiAir into the PSU ensures that the DigiAir's break-off mounting lugs are removed.

Ensure that the PSU's + and - 12 volt output is connected to the DigiAir's + and - supply input.

The 'normally closed' PSU outputs must be wired to the CIE inputs so that CIE setting may be inhibited by:

- TAMP terminals
- A tamper fault (i.e. the PSU lid is removed)
- AC FLT terminals
- Prime power (mains, EPS) fault
- FLT terminals
- Alternate power (battery, APS) low voltage or failure
- COM & NC terminals on DigiAir
- DigiAir (ATS) path or communications fault.

Do not run wiring under the PSU board.