DIGIAIR PSU QUICK GUIDE AND INSTRUCTION MANUAL

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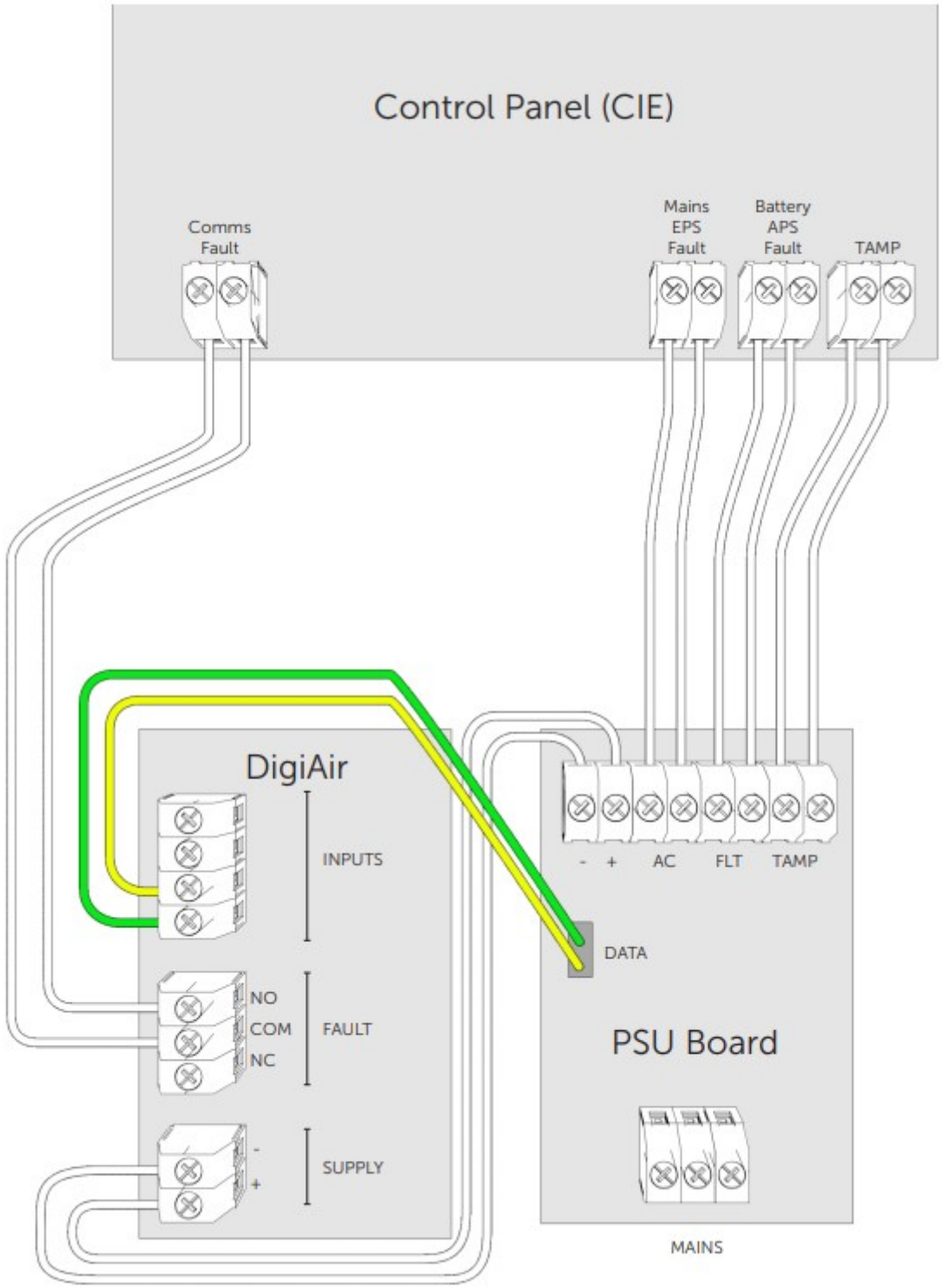
DigiAir PSU Quick Guide and Instruction Manual

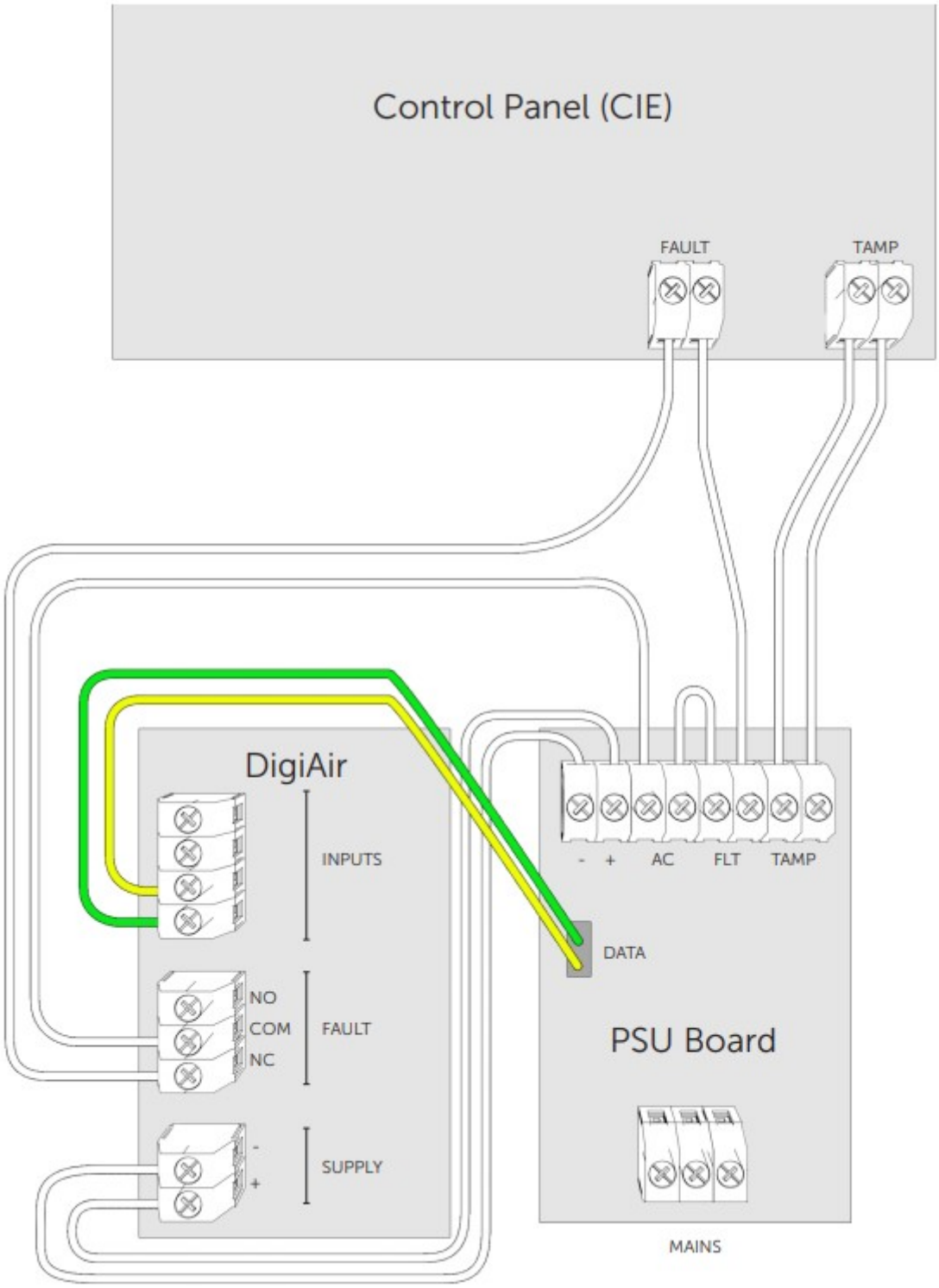
Installation

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.

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LED Indications

LED Label	LED STATUS		
	ON	Flashing	OFF
Red FLT LED	Battery disconnected Battery charge fail Over voltage output Low voltage output	-	No faults
Green OK LED	Battery power OK Mains power OK	Battery power OK but no mains power	No battery power and no mains power

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Specifications

Manufacturer	CSL
Part Numbers	CS1510 - PSU (PSU only) CS5652 - PSU + DigiAir UDL UK/Ire CS5653 - PSU + DigiAir UDL EU CS0710 - Replacement battery
Installation Standard	This PSU is designed to meet the requirements of: EN50131-1:2006 + A1:2009, Grade 1 & 2 EN50131-6:1998 EN50131-10:2014 EN50136-2:2013, SP1 & SP2 EN50136:1998 Grade 2 ATS2 = D2, M2, T2, S0, I0 EN50136:1998 Grade 2 ATS3 = D2, M2, T2, S1, I1 PD6662:2010 PD6662 IA 1501:2015
EMC standard	EN 61000-6-3 EN 50130-4:2011
Electrical safety st'd	EN 60065:2014 or EN62368-1:2014
PSU Type	Type A (EN50131-6:1998)
Environmental Class	1 & 2, Indoor Heated & Indoor General
Temperature Range	-10 to +40 Centigrade
Humidity	Less than 75%, non-condensing
Mains supply	230v +/- 10% AC, 50Hz +/- 5Hz
Max output current	No more than 1.00A may be continuously drawn from the PSU
Output ripple	At the max output current and 90% mains supply, max ripple = 50mV
Low Voltage fault	The FLT output will activate when the output voltage is below 9.60 volts
AC FLT output	Normally closed (no mains fault), clean contacts. 60 volts, 100mA max
FLT output	Normally closed (no battery fault), clean contacts. 60 volts, 100mA max
TAMP output	Normally closed (with lid fitted), clean contacts. 60 volts, 500mA max