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CCU/422-HUB Install Instructions

Part #: CCU/422-HUB

This equipment is designed to be installed and serviced by fully qualified field engineers. No user serviceable or installation parts inside.

Supplied:

1	x	CCU/422 board with firmware for CCU-NET Hub
1	x	Mounting Bracket
1	x	Power connector for CCU/422
1	x	Supervision relay connector for CCU/422
4	x	Network connectors

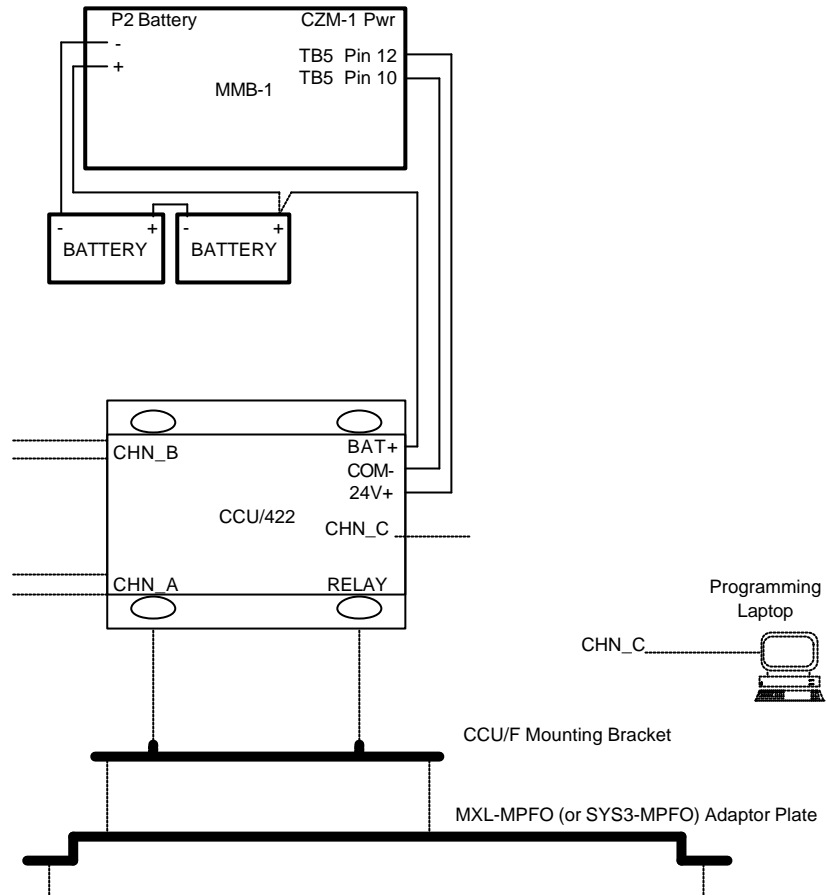
You will need:

1	x	24V Power Supply & Batt. to CCU/422. Connector supplied.
1	x	(Optional) MXL-MPFO Adaptor plate (MXL installations)

Power Requirements:

Typical:	200mA at 24VDC
Voltage Input:	20-30 VDC

Installation of CCU/422 (Using MXL Fire indicator Panel for power):



- A PC can be temporarily connected to port CHN_C of CCU/422 for programming of CCU/422. Note that this is a straight through standard RS232 cable for laptops.

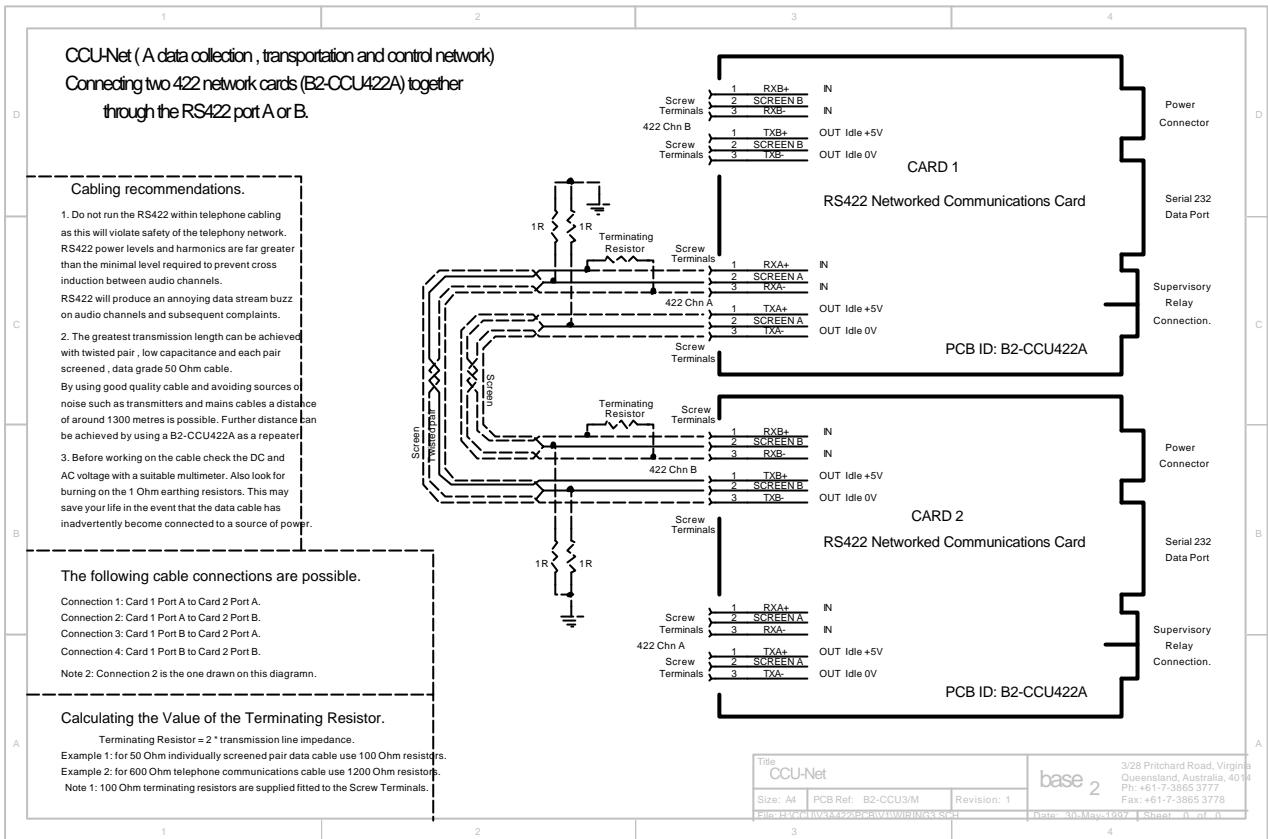
CCU/422 CHN_C 9PIN (DCE)	PC/LAPTOP 25PIN	PC/LAPTOP 9PIN
2	3	2
3	2	3
4	20	4
5	7	5

- If hardware supervision is required connect the relay output from the CCU/422 to a suitable input on the FIP (software supervision does not require this). There are two relay sockets located next to the D9 connector - these are IDENTICAL and either can be used. The relays will Energise when Supervision failure is detected.
- Connect the 24V DC power source to the supplied connector. The power connector is next to the CHN_C port. These connections are written on the board. Note that the BATERy connection is not required if the 24V is uninterruptible. Pin connections are:

CCU/M
24V
COM
BAT

Connecting to the RS422 network:

- There are two channels (CHN_A and CHN_B). These are marked on the printed circuit board.



Configuration of CCU/422:

- If your network has less than 256 CCU nodes, you can use the jumpers (IN1 to IN8) on the CCU/422 to configure the CCU Network address. Each CCU Node must have a unique address. Address 0 CANNOT BE USED. The jumpers represent a BINARY address. Example:

Addr	IN8	IN7	IN6	IN5	IN4	IN3	IN2	IN1
1								SHORT
2							SHORT	
3							SHORT	SHORT
4						SHORT		
5						SHORT		SHORT
6						SHORT	SHORT	
7						SHORT	SHORT	SHORT
8					SHORT			
9					SHORT			SHORT
10					SHORT		SHORT	
11					SHORT		SHORT	SHORT
12					SHORT	SHORT		
13					SHORT	SHORT		SHORT
14					SHORT	SHORT	SHORT	
15					SHORT	SHORT	SHORT	SHORT
16				SHORT				
255	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT

- If you need to use the jumpers as supervised inputs, or you need to program addresses from 256 to 65535 (The CCU Network does not support more than 65535 nodes). You will need to use a laptop to program the network address.
- Software configuration requires that a laptop be connected to port CHN-C using a straight through RS232 cable. A terminal program (such as Procom/Telix or Windows Terminal using VT100 emulation) can be used with communication parameters set to 9600,N,8,1. Power up the CCU. After approximately 3 seconds, all LEDs on the CCU will indicate. BEFORE this happens you can type **MENU**, allowing programming of the CCU/422 using the default configuration.
- Type **MENU** to invoke the programming menu. There is no need to press <Enter>.
- Follow the menu options (detailed instructions follow) and set the:
 - ADDRESS** -Addresses from 1 to 65535 can be used.
 - INPUTS** - Specify whether you want to use the jumpers for the address (or the internal address). The CCU/422 is supplied with factory setting using the JUMPERS. So, on smaller networks there is no need to connect a laptop.

Connecting the RS232 Port (CHN_C):

- This port is configured as a DCE port.
- If this port is to be connected to a DTE port (Example: PC or laptop, CCU/232 board CHN_A or B, CCU/M Board CHN_A or B), then a straight through cable can be used.
- If the port is to be connected to another DCE port (example: CCU/232-HUB, CCU/M, CCU/F, CCU/422), then a null modem cable is required.

CCU/422 CHN_C 9PIN (DCE)	RS232 CHN_A or B (DTE) of a CCU Board (CCU/232, CCU/M)	RS232 CHN_C (DCE) of a CCU Board (CCU/232, CCU/F, CCU/M, CCU/422)	PC COM Port 25PIN	PC COM Port 9PIN
2	2	3	3	2
3	3	2	2	3
5	5	5	7	5

Operation of LEDs:

- Each port has a Green and a Yellow LED. Green means the port is operating OK. Yellow means that the port is not operating OK, or there has been supervision failure on this port.