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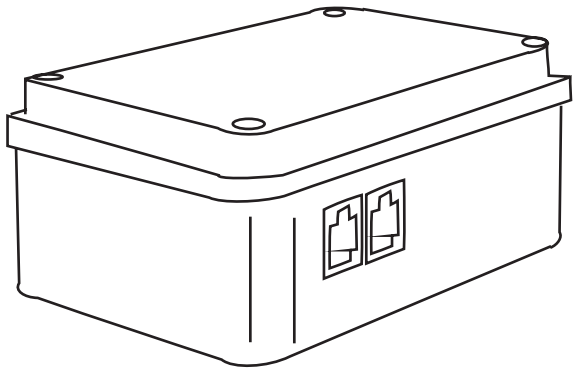
**MI-I-CI01/E1-0**



English

# 485 Bus Alarm Module



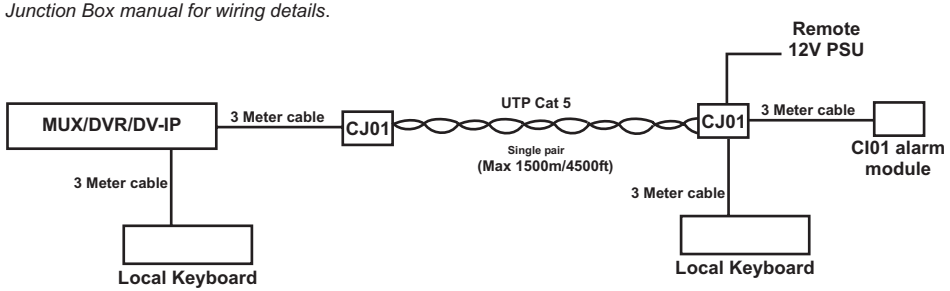
## Owners Guide for Setup & Operation

DEDICATED MICROS

English

### Remote connections via twisted pair plus keyboard and Jumper Link Settings

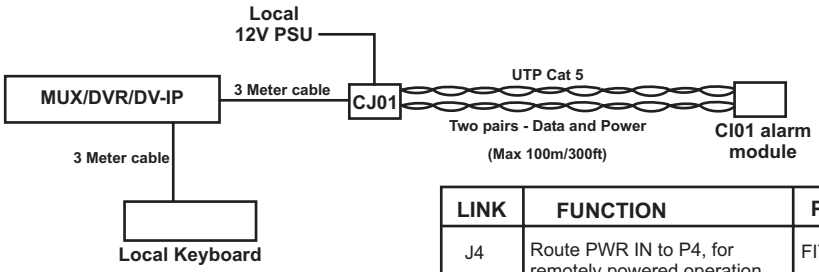
The diagram shows how to extend the distance of the alarm module using UTP Cat 5 cable plus the inclusion of a remote keyboard. The keyboard can not connect to the alarm module so to provide connectivity for both devices it is necessary to include a junction box (CJ01). The junction box requires a 12V supply, *refer to the Junction Box manual for wiring details*.




| LINK | FUNCTION | POSITION |
|---|---|---|
| J4 | Route PWR IN to P4, for remotely powered operation | FITTED |

### Remote power via twisted pair and Jumper Link Settings

The diagram shows how power can be transferred across the UTP Cat 5 cable to power the remote alarm module, this is if local power (to the alarm module) can not be achieved.




| LINK | FUNCTION | POSITION |
|---|---|---|
| J4 | Route PWR IN to P4, for remotely powered operation | FITTED |

### UTP CAT 5 Wiring Details

This shows the connections when using twisted pair.

| LOCAL JUNCTION BOX | | TWISTED PAIR | REMOTE ALARM MODULE | |
|---|---|---|---|---|
| CONNECTOR | PIN | | PIN | CONNECTOR |
| P4 | Pin 1 +12V<br>Pin 4 GND | Pair 1 | Pin 1 +12V<br>Pin 4 GND | P4 |
| | Pin 2 ‘A’ 485 Bus Data<br>Pin 3 ‘B’ 485 Bus Data | Pair 2 | Pin 2 ‘A’ 485 Bus Data<br>Pin 3 ‘B’ 485 Bus Data | |

English

## Introduction

The remote alarm module allows additional alarms to be connected to a Dedicated Micros multiplexer, DVR and DV-IP product.

The additional alarm inputs are configured within the system menus and allows integration of building management systems into a single solution, ensuring the site is continuously monitored and recorded (if enabled).

**Compatible DM Products**
The CI01 alarm module can be included in installation that have one, or more, of the following DM products:

- 485 enabled Multiplexers
- DS2 range
- BX2 range
- DV-IP range

## Installation

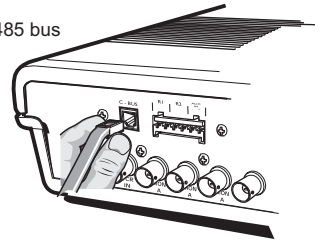
The alarm module allows additional alarms to be integrated into a single monitoring solution additional alarms can be connected to the screw terminal connectors in the module.

The screw terminal can be removed from the module to allow ease of installation. Once all additional alarms are connected the screw terminal are simply plugged back into the module. *For pin details refer to the layout diagram and connector table below*.

**Note:** Ensure the connectors are placed back in the module in the correct location.

## Connecting the Alarm Module to the Multiplexer

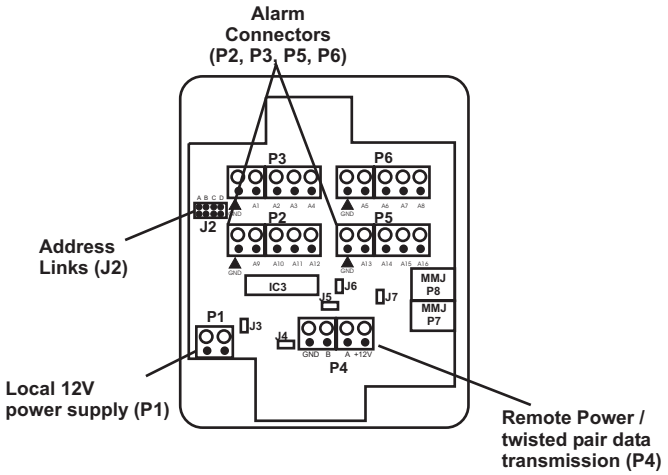
The alarm module connects to the DM multiplexer/DVR/DV-IP product via the 485 bus connection on the rear of the unit.



Using the 485 bus cable provided (3 Meters) connect one end to the module and the other to either of the 485 bus connectors on the unit.

**Note:** If an alarm module is to be fitted remotely to the system and the distance exceeds the 3 meter limit a 12V external supply is required to power the alarm module.

## Key to Alarm Module



English

## Jumper Link Information

There are a number of jumpers on the PCB,the following details the connector, function and default setting for each jumper.

| Link | Connection | Function | Default |
|---|---|---|---|
| J2 | Pins 1 to 8 | 485 Bus Address (*refer to address table below*) | OFF (Default Address Module 1) |
| J3 | Pins 1 & 2 | RESET | OFF |
| J4 | Pins 1 & 2 | Route power in to P4, power board from P4 | OFF |
| J5 | Pins 1 & 2 | 485 Bus Termination | OFF |
| J6 | Pins 1 & 2 | NOT USED | ON/OFF |
| J7 | Not Fitted | Not Fitted | N/A |

## Connector Information

The following details the functions of the multiple connectors on the PCB.

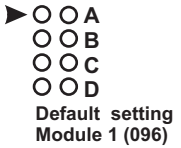
| Connector | Connection | Function |
|---|---|---|
| P1 | **1** | PWR IN GND |
| P1 | **2** | PWR IN +12V |
| P2 | **1** | Alarm input GND |
| P2 | **2 to 5** | Alarm inputs 9 to 12 |
| P3 | **1** | Alarm input GND |
| P3 | **2 to 5** | Alarm inputs 1 to 4 |
| P4 | **1** | Line Power 12V |
| P4 | **2** | 485 Bus Data A/485 POS |
| P4 | **3** | 485 bus Data B / 485 NEG |
| P4 | **4** | Line power 0V |
| P5 | **1** | Alarm input GND |
| P5 | **2 to 5** | Alarm inputs 13 to 16 |
| P6 | **1** | Alarm input GND |
| P6 | **2 to 5** | Alarm inputs 5 to 8 |

English

## Assigning the Address Link (J2)

Refer to the following table when changing the address of the 485 Bus alarm module from the default Module 01. (See relevant multiplexer manual for more details).

| Alarm Module | Status of Link Settings | | | | Address |
|---|---|---|---|---|---|
| | 1 & 2 A | 3 & 4 B | 5 & 6 C | 7 & 8 D | |
| 1 | 0 | 0 | 0 | 0 | 096 |
| 2 | 0 | 0 | 0 | 1 | 097 |
| 3 | 0 | 0 | 1 | 0 | 098 |
| 4 | 0 | 0 | 1 | 1 | 099 |
| 5 | 0 | 1 | 0 | 0 | 100 |
| 6 | 0 | 1 | 0 | 1 | 101 |
| 7 | 0 | 1 | 1 | 0 | 102 |
| 8 | 0 | 1 | 1 | 1 | 103 |
| 9 | 1 | 0 | 0 | 0 | 104 |
| 10 | 1 | 0 | 0 | 1 | 105 |
| 11 | 1 | 0 | 1 | 0 | 106 |
| 12 | 1 | 0 | 1 | 1 | 107 |
| 13 | 1 | 1 | 0 | 0 | 108 |
| 14 | 1 | 1 | 0 | 1 | 109 |
| 15 | 1 | 1 | 1 | 0 | 110 |
| 16 | 1 | 1 | 1 | 1 | 111 |



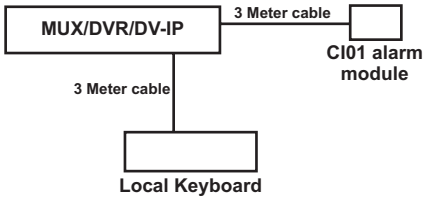

**Default setting**
**Module 1 (096)**

## Layout Diagrams

The following block diagrams show how the CI01 alarm module can fit into various scenarios.

### Local connection and Jumper Link Settings

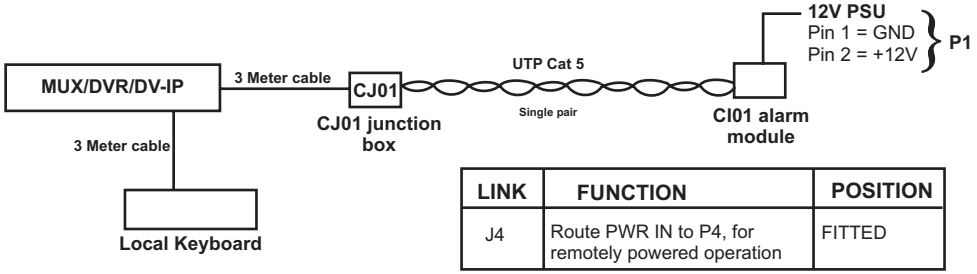
The diagram shows the alarm module connected directly to the unit using the 3 meter 485 bus cable (supplied). It may be necessary to change the jumper links on the unit to ensure the power is routed correctly.




| LINK | FUNCTION | POSITION |
|---|---|---|
| J4 | Route PWR IN to P4, for remotely powered operation | NOT FITTED |

### Remote connections via twisted pair with local power and Jumper Link Settings

The diagram shows how to extend the distance of the alarm module using UTP Cat 5 cable. The alarm module requires a 12V supply.




| LINK | FUNCTION | POSITION |
|---|---|---|
| J4 | Route PWR IN to P4, for remotely powered operation | FITTED |