

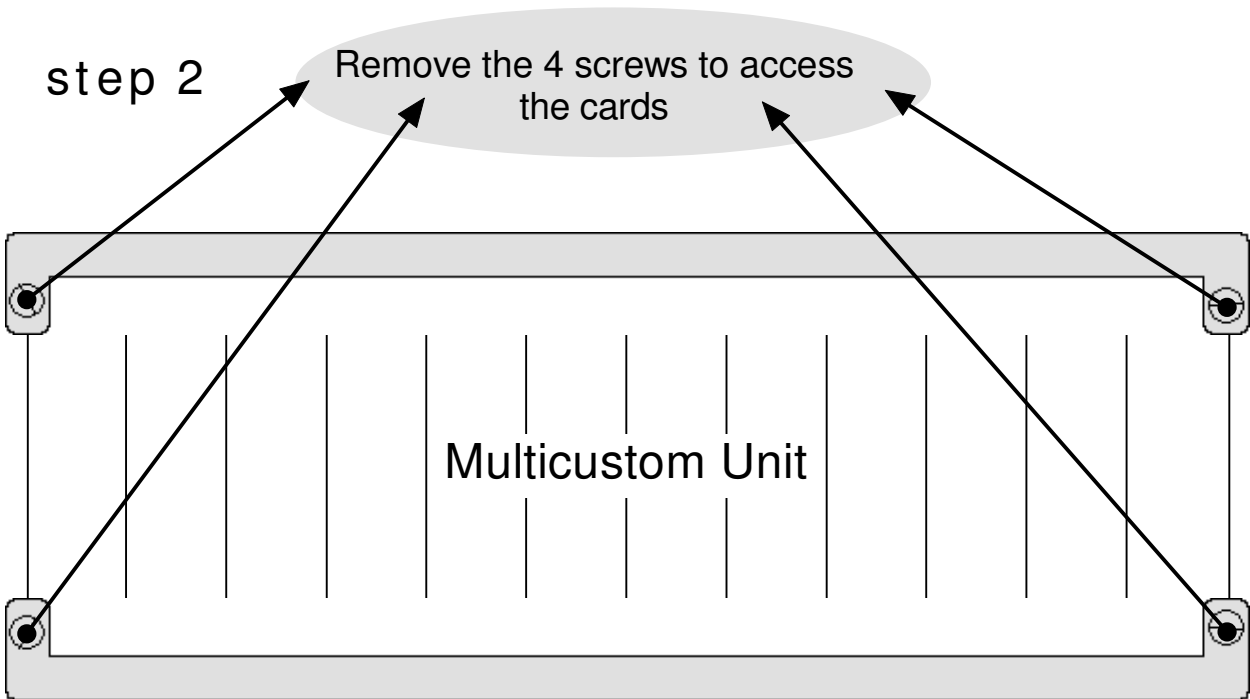
Insert / Remove the cards of the Multicustom

step 1

power off the unit.
Inserting / removing cards onto a unit while it's still powered
can damage your unit.

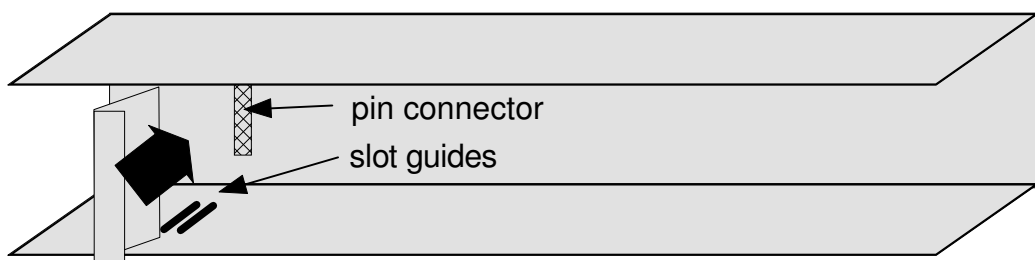
step 2

Remove the 4 screws to access
the cards



step 3

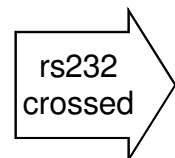
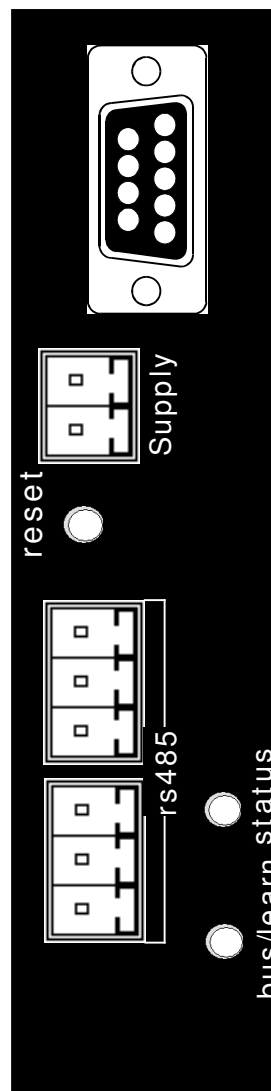
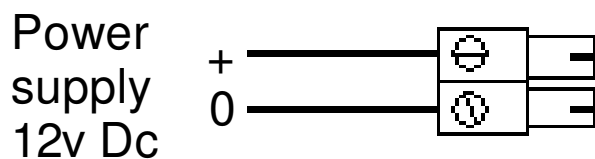
insert / remove the card carefully following the internal
metal guides of the Multicustom unit



step 4

reconnect the power, the status red led of the card should blink
indicating that it's working properly.
screw back the 2 bars to lock the unit.

***Remove the power of the unit
before any work on the cards of the unit.***

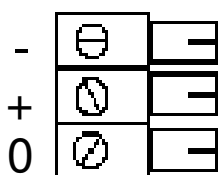


to Pc, for version upgrade and standalone programs **ONLY**

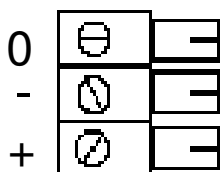
Attention

Due to an error the rs485 connectors is different on the first 50 units of multicustom

➔ for Multicustom units **BEFORE** serial number **1080385004510051**



➔ for Multicustom units **AFTER** serial number **1080385004510051**



















- the status led is blinking that means that the Multicustom unit is Ok to receive commands
- the bus/learn led blinks when receiving a command to execute or a feedback to send back.
- the bus/learn led stay ON when placed in the infrared code learning mode

- It's possible to connect up to 16 Multicustom units together. Each Multicustom unit **MUST** have a unique address on the rs485 bus.
- The rs485 bus address of the a unit is setup by the dip-switches located on the processor card.

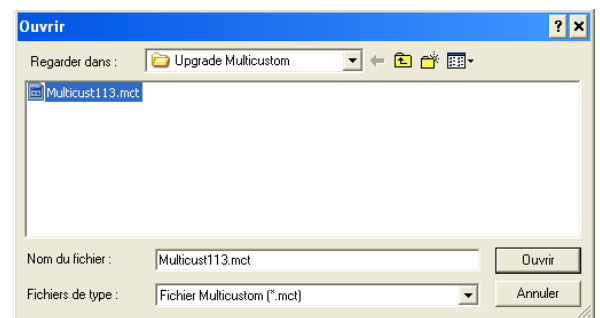
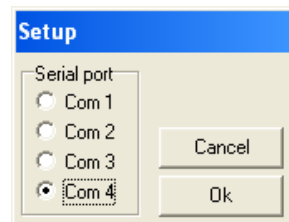
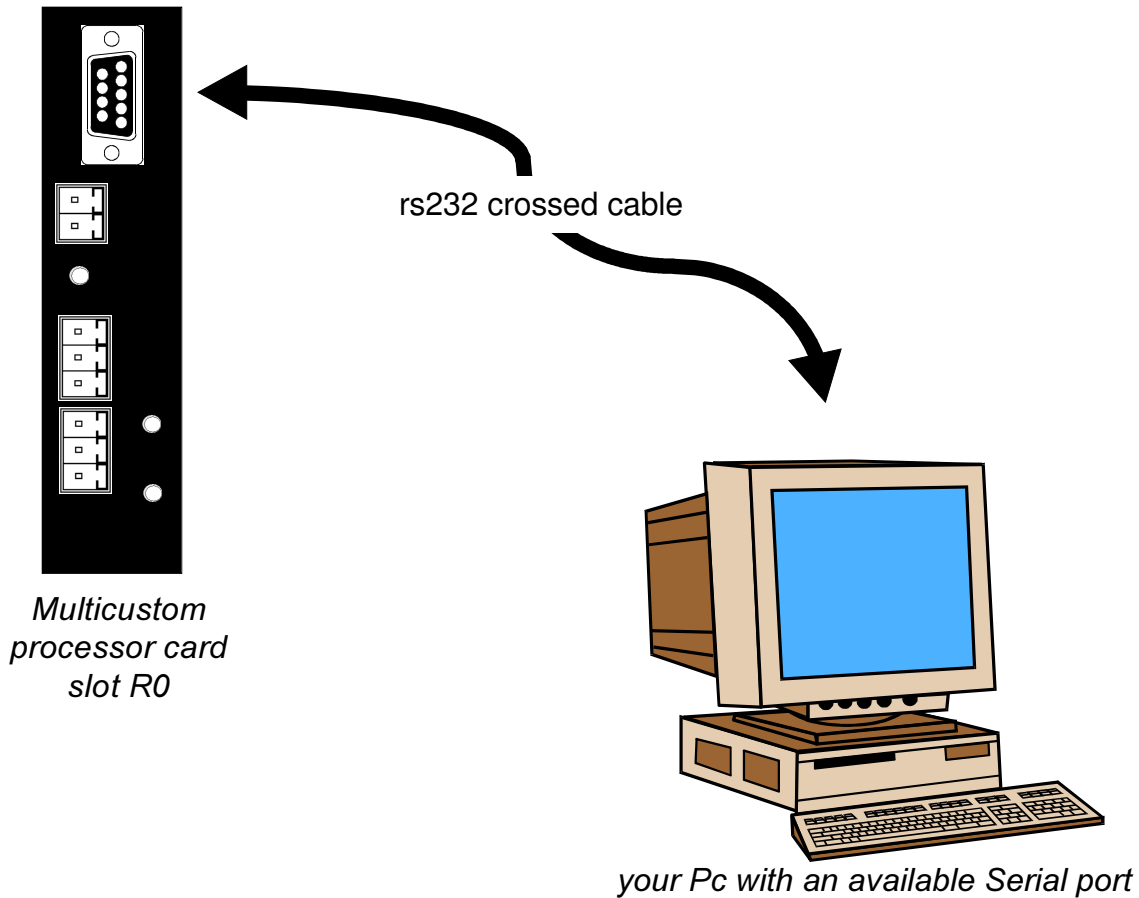
Caution

Always power OFF the unit before changing it's address to avoid electrical damages on your system.

- To achieve optimal performance of your system, give a unique address to each element of your rs485 bus, if you use Mediabus cards (MBC-RK, MBC-RL, ...) to extend your system, configure them to addresses starting at **17** so they won't mixup with Monopro / Multicustom adresses.

Address	dip-switch
1	<div style="border: 1px solid black; padding: 5px;"> on  </div> <i>Default Address</i>
2	<div style="border: 1px solid black; padding: 5px;"> on  </div>
3	<div style="border: 1px solid black; padding: 5px;"> on  </div>
4	<div style="border: 1px solid black; padding: 5px;"> on  </div>
5	<div style="border: 1px solid black; padding: 5px;"> on  </div>
6	<div style="border: 1px solid black; padding: 5px;"> on  </div>
7	<div style="border: 1px solid black; padding: 5px;"> on  </div>
8	<div style="border: 1px solid black; padding: 5px;"> on  </div>
9	<div style="border: 1px solid black; padding: 5px;"> on  </div>
10	<div style="border: 1px solid black; padding: 5px;"> on  </div>
11	<div style="border: 1px solid black; padding: 5px;"> on  </div>
12	<div style="border: 1px solid black; padding: 5px;"> on  </div>
13	<div style="border: 1px solid black; padding: 5px;"> on  </div>
14	<div style="border: 1px solid black; padding: 5px;"> on  </div>
15	<div style="border: 1px solid black; padding: 5px;"> on  </div>
16	<div style="border: 1px solid black; padding: 5px;"> on  </div>

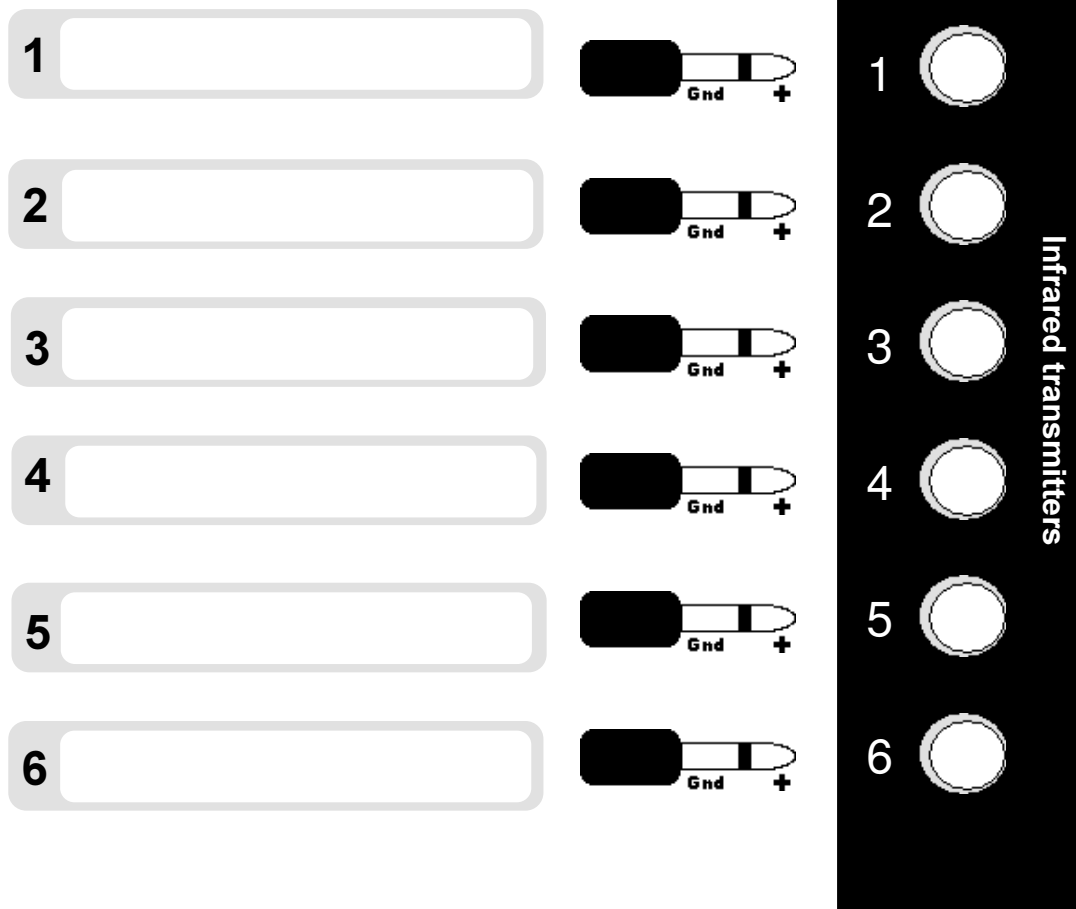
The Firmware update of your Multicustom unit is used to implement corrections, add-on, upgraded versions to your Multicustom unit.



- 1 Download the firmware file Multicust???.mct (where the ??? indicate the version of the firmware file).
Run the MulticustomMaj program on your Pc. (Available through download from our web site www.vity.com, login required)
- 2 Verify in the setup parameters that you'll use the correct comm port of your Pc and connect a crossed rs232 cable between your Pc and the db9 connector of the Processor card of the Multicustom unit.
- 3 Select the firmware update version you want to upload, then follow the onscreen messages that will direct you for a proper upgrade of the firmware

MCM-IRTX

Multicustom card with 6 infrared outputs

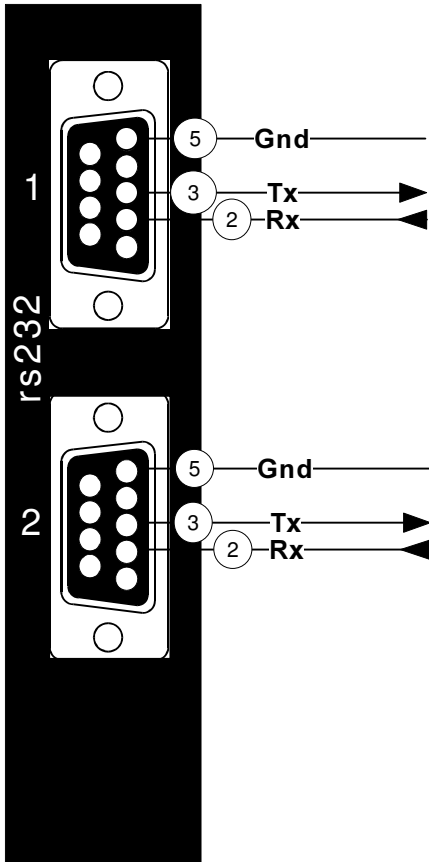
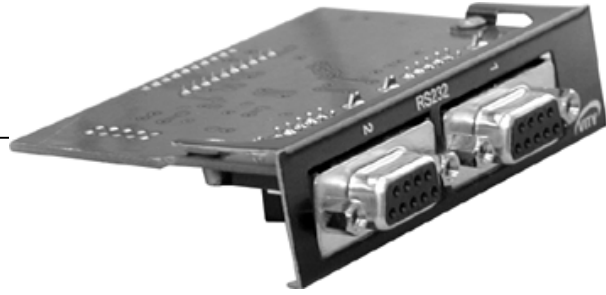


Features

- 6 independent infra-red outputs
- connectors on jack 3,5mm mono
- output impedance : 100 Ohms
- each output can play any of the 256 different infra-red code that can be stored in the Multicustom unit.
- Use standards XANTECH emitters.

MCM-RS232

Multicustom card with 2 rs232 ports



Port 1

crossed

Port 2

crossed

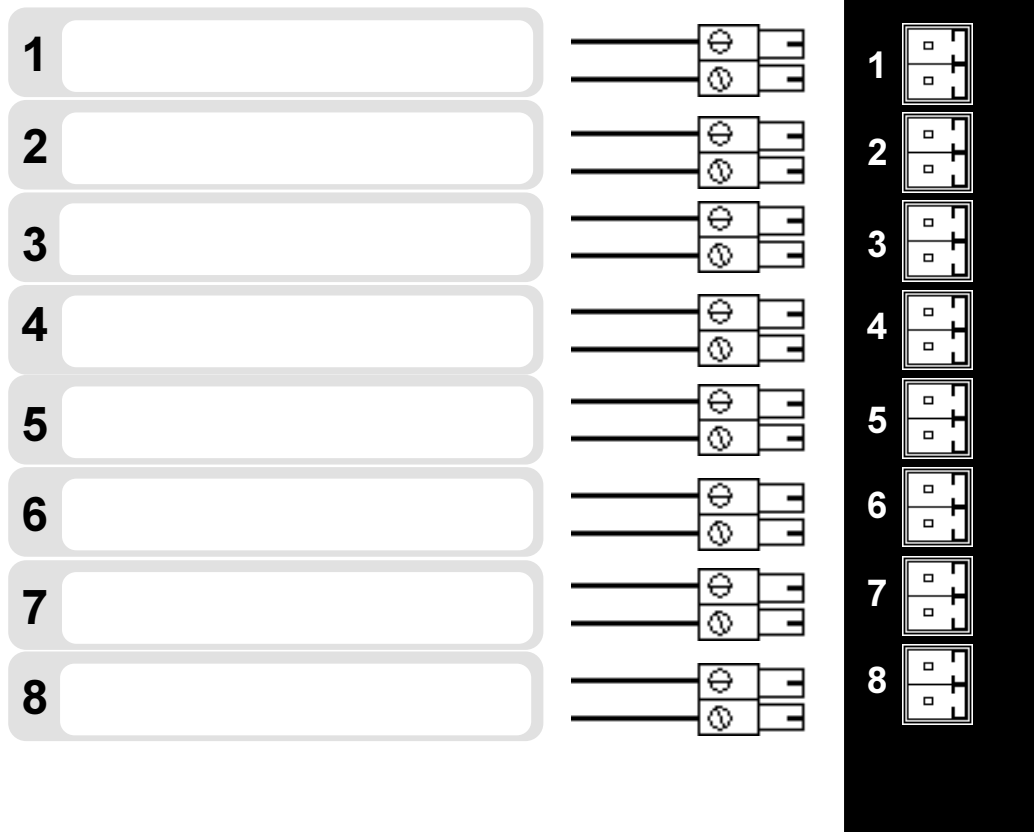
Features

- Full-duplex rs232 ports
- fully buffered
- baudrates selectable from 300 to 115200 bauds by software
- no hardware handshake
- use an external convertor for full rs422 support

- use one of the "standards" slots of the Multicustom.
- Connect up to 8 MCM-RS232 card by Multicustom unit

MCM-RL

Multicustom card with 8 relays output



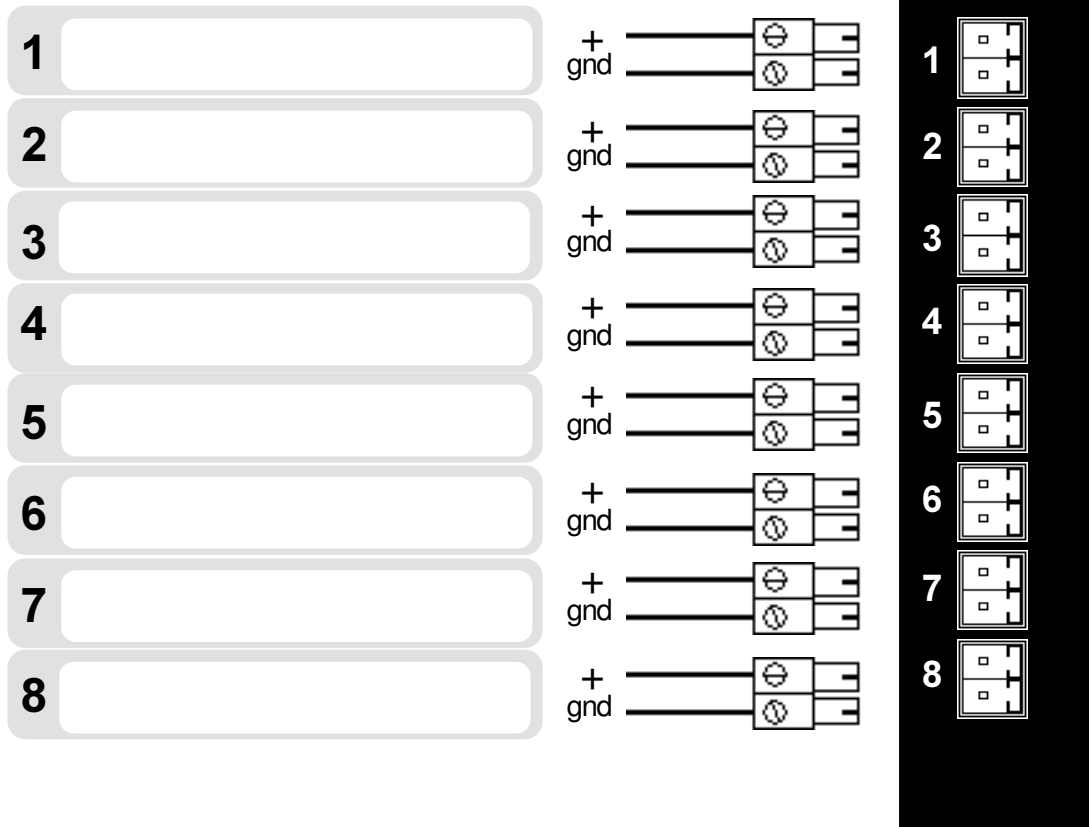
Features

- Isolated relays (grounds are separate for each relay)
- relay can drive voltage MAX 24 volts 50ma
- relays are NORMALLY OPEN relays - use an inverter power relay to achieve "normally close" functions

- use one of the "standards" slots of the Multicustom
- connect up to 8 MCM-RL cards by Multicustom unit

MCM-0/10

Multicustom card with 0 to 10 volts output



all GND are internally connected to the ground of the unit

Features

- 0 to 10 volts output (MAXIMUM 10ma)
- allow ramping functions 256 steps
- All GND are in common, they are internally connected to the main ground of the Multicustom unit.

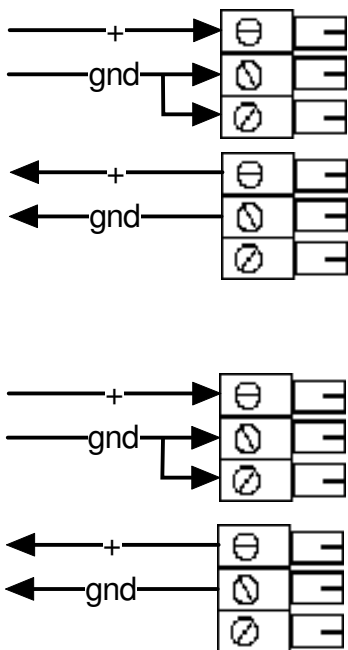
- use one of the "standards" slots of the Multicustom
- connect up to 8 MCM-0/10 cards by Multicustom unit

MCM-VCA

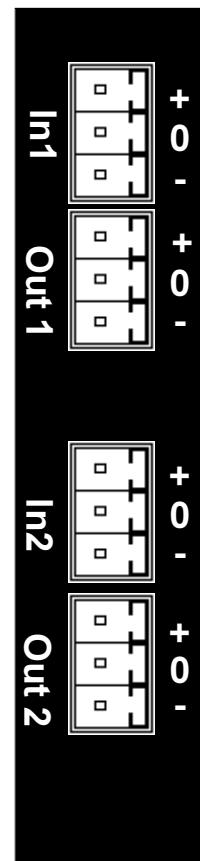
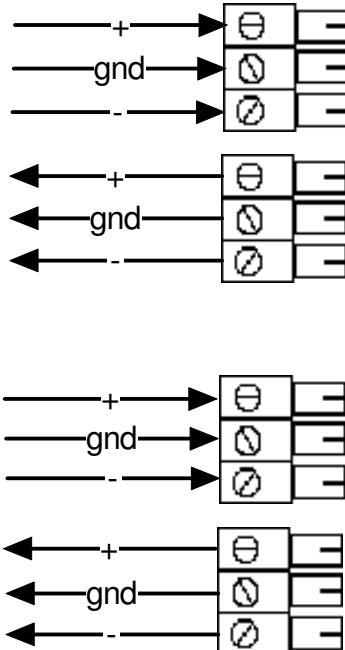
Multicustom card with 1 stereo volume control



Unbalanced signal connection



Balanced signal connection



all GND are internally connected to the ground of the unit

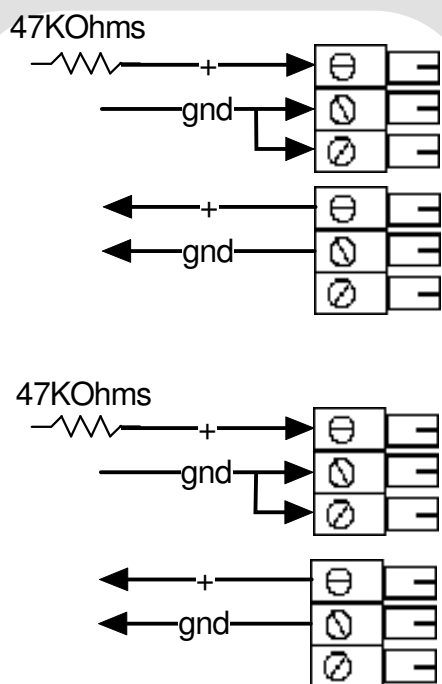
Features

- Balanced stereo vca
- support line level under 0db
- All GND are in common, they are internally connected to the main ground of the Multicustom unit.

- use "reserved" R2 slot
- connect only 1 MCM-VCA card by Multicustom unit

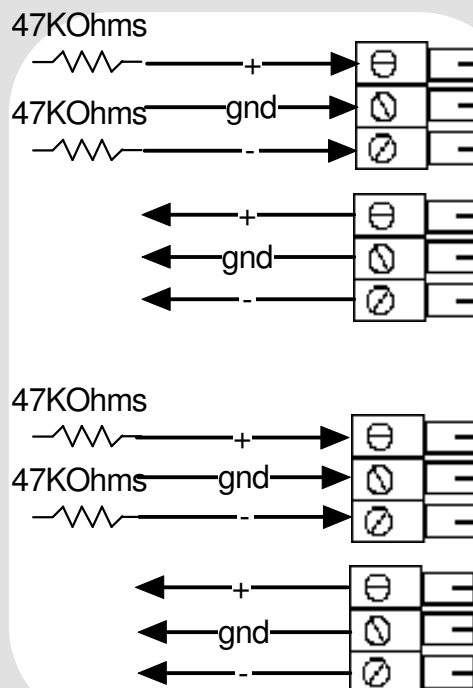
MCM-VCA for line level superior to 0db

Unbalanced signal connection



Lower the input signal by
-6db

Balanced signal connection



Lower the input signal by
-6db

Important

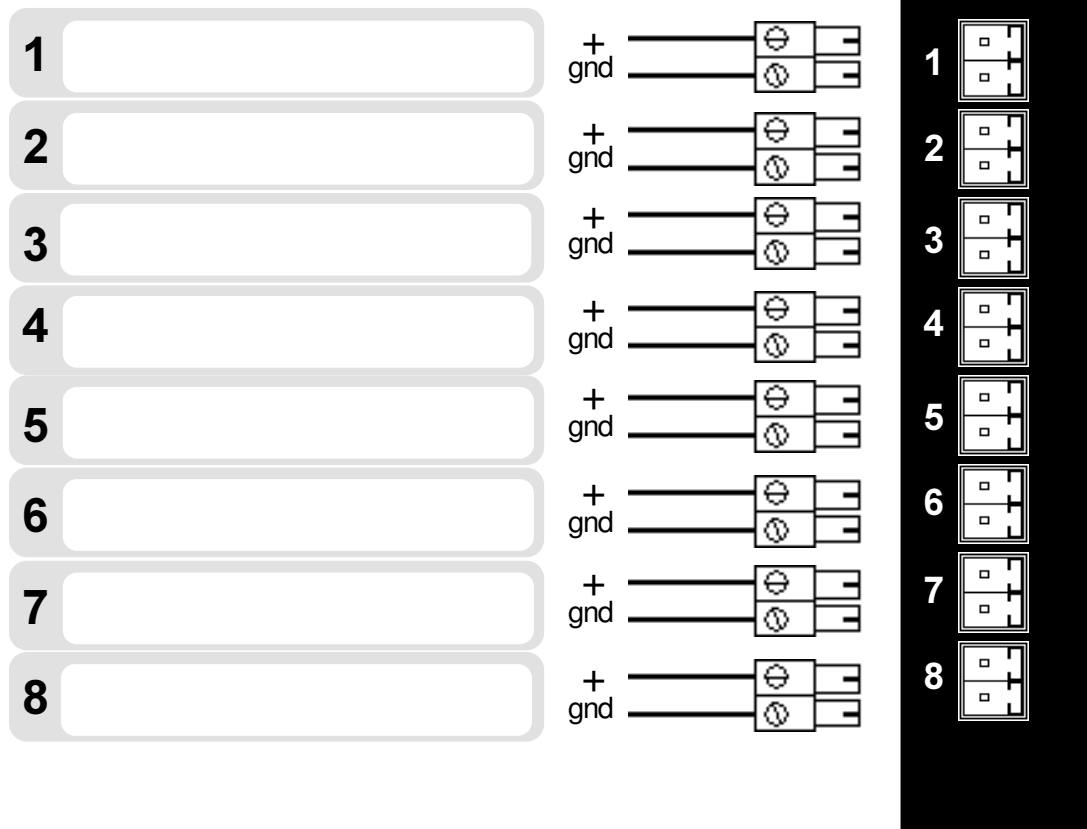
If your level input is superior to **0db**, then you will experience distortions of your output when reaching high levels.

In this case **you need to lower** your input signal.

This can be done by adding a **resistor** to the input, a resistor of 47 KOhms will lower your input by -6 db.

MCM-JPI

Multicustom card with 8 dry contact inputs



all GND are internally connected to the ground of the unit

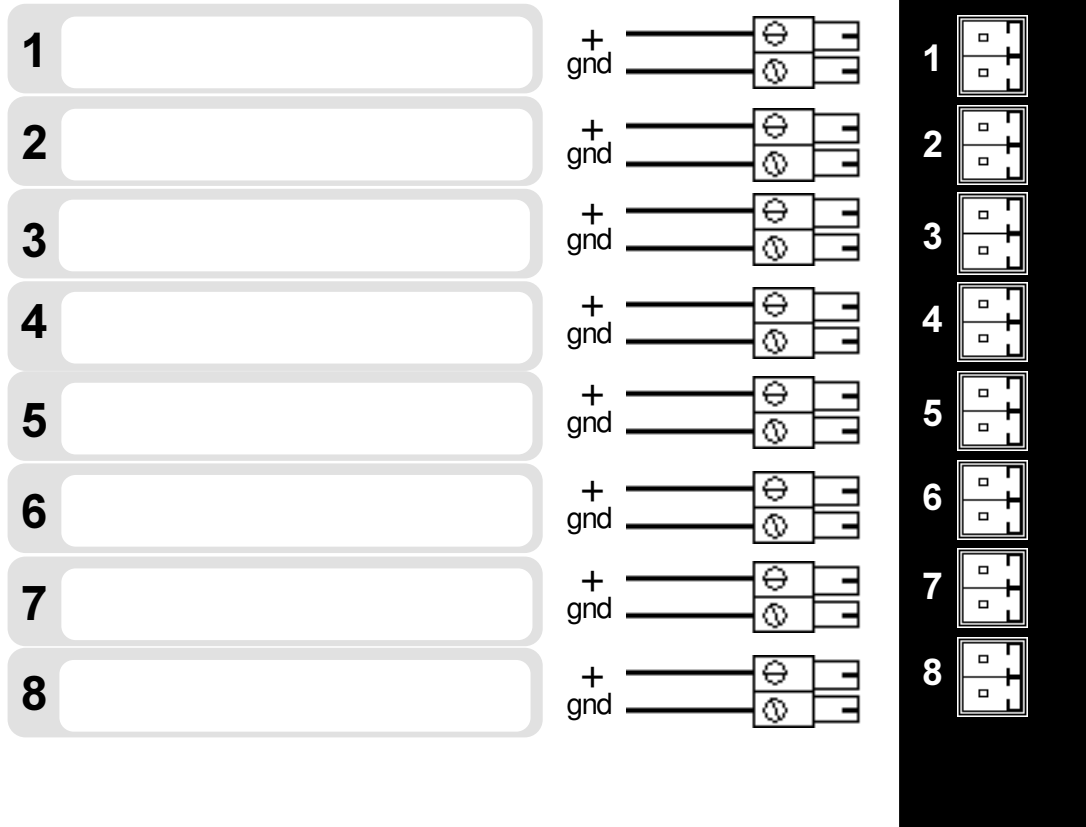
Features

- Dry contact detection
- support MAXIMUM 24 volts 50ma
- All GND are in common, they are internally connected to the main ground of the Multicustom unit.

- use one of the "standards" slots of the Multicustom
- connect up to 8 MCM-JPI cards by Multicustom unit

MCM-A/I

Multicustom card with 8 analog inputs



all GND are internally connected to the ground of the unit

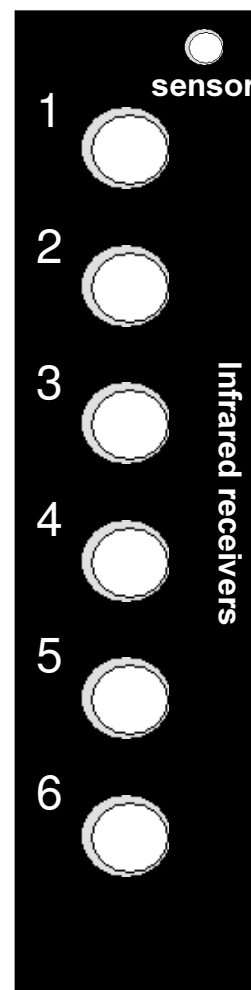
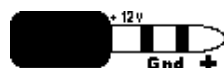
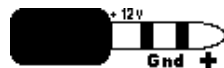
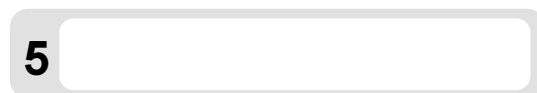
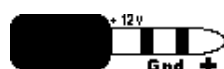
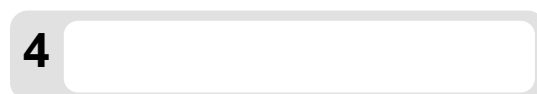
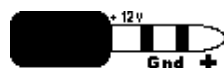
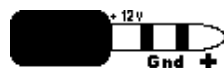
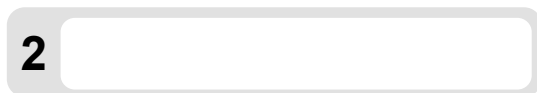
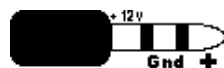
Features

- voltage detection from 0 to 36volts Dc
- 5 different gauge possible.
- All GND are in common, they are internally connected to the main ground of the Multicustom unit.

- use one of the "standards" slots of the Multicustom
- connect up to 8 MCM-A/I cards by Multicustom unit

MCM-IRX

Multicustom card with 6 infrared inputs

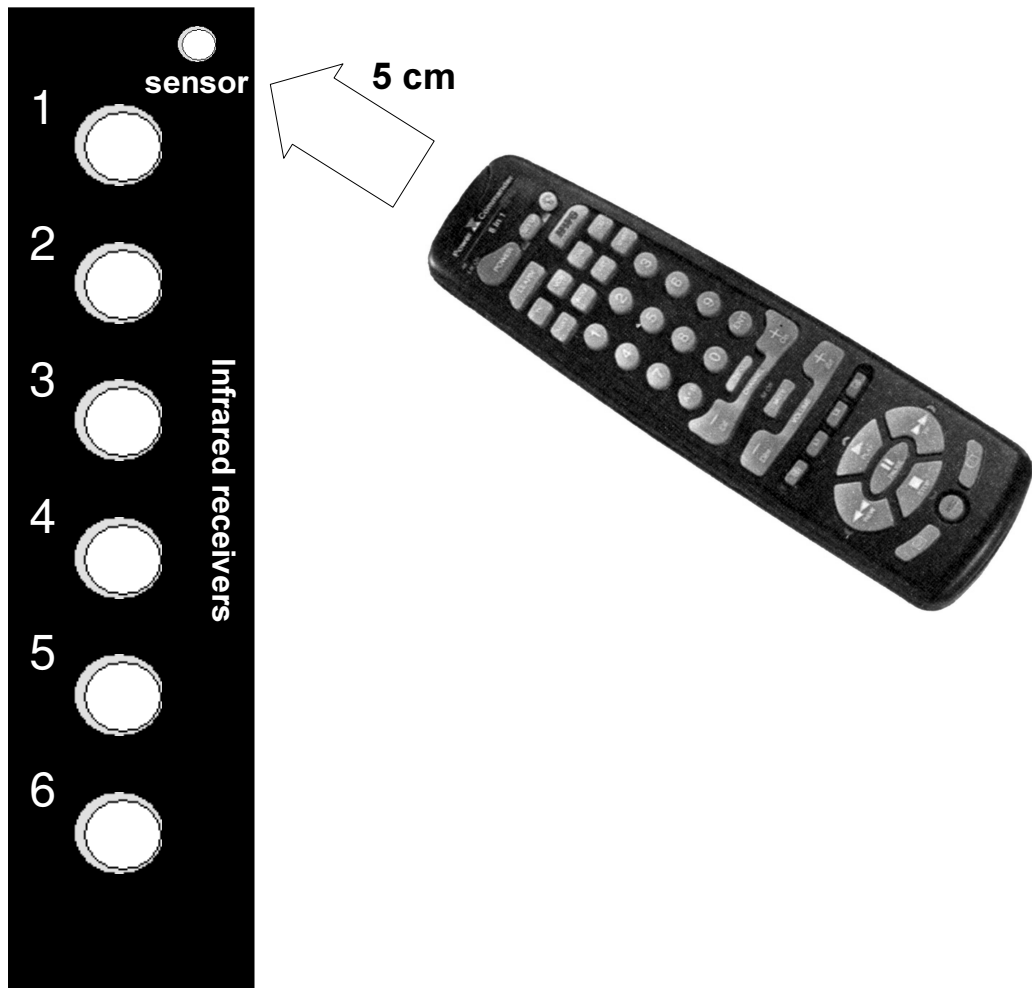


the sensor is linked internally to input 6

Features

- 6 independent infra-red inputs
- connectors on jack 3,5mm stereo
- each input is able to receive rc5 codes to trigger events and macro commands
- the front sensor is used when learning infrared codes inside the memory of the Multicustom unit the input 6 can be used alternatively to learn the infrared codes.
- once the infrared codes has been learned in the system and if you don't need RC5 event triggers the MCM-IRX can be removed from the unit.
- Use standards XANTECH receivers.

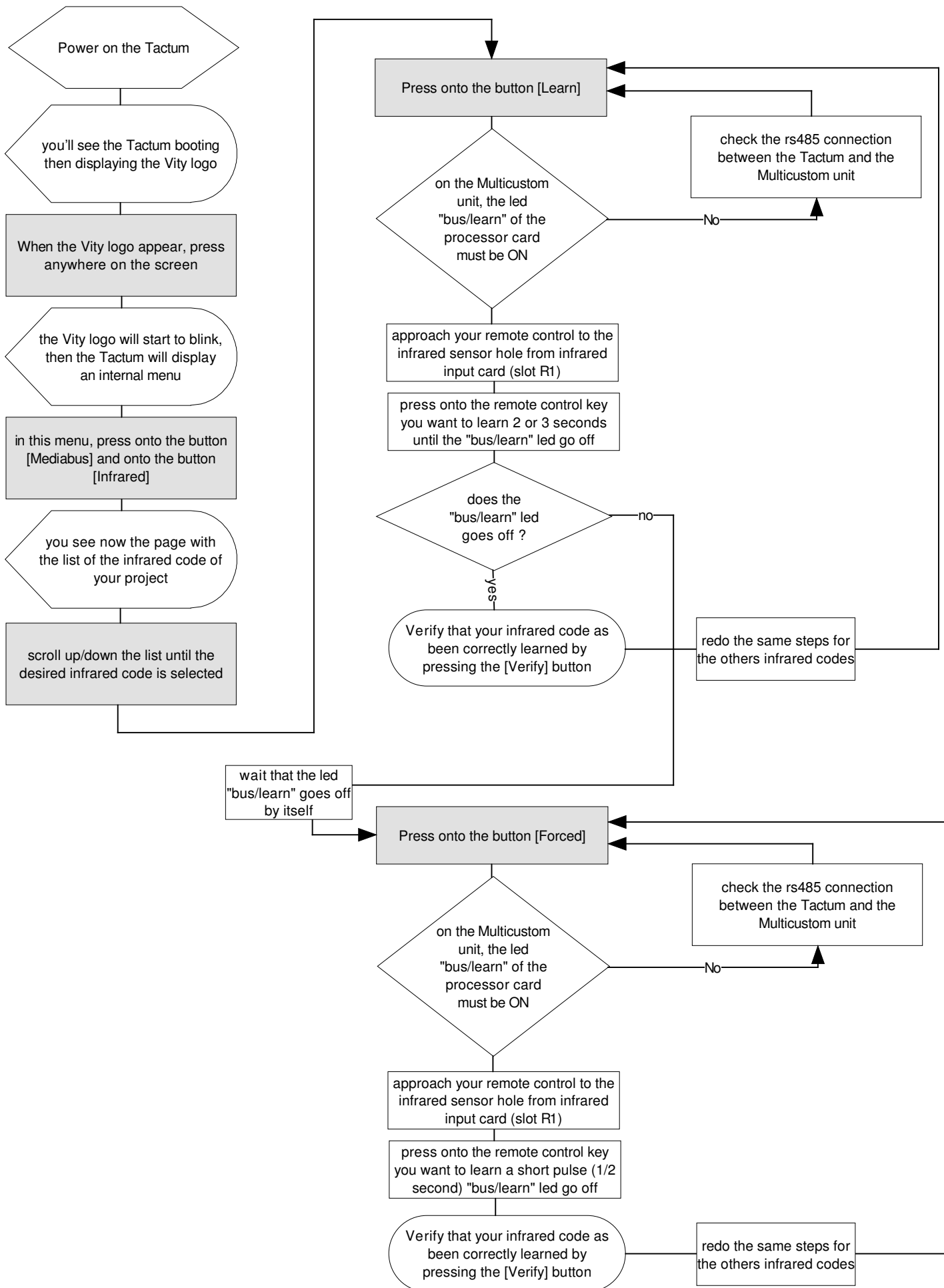
Using MCM-IRX to learn the infra-red codes



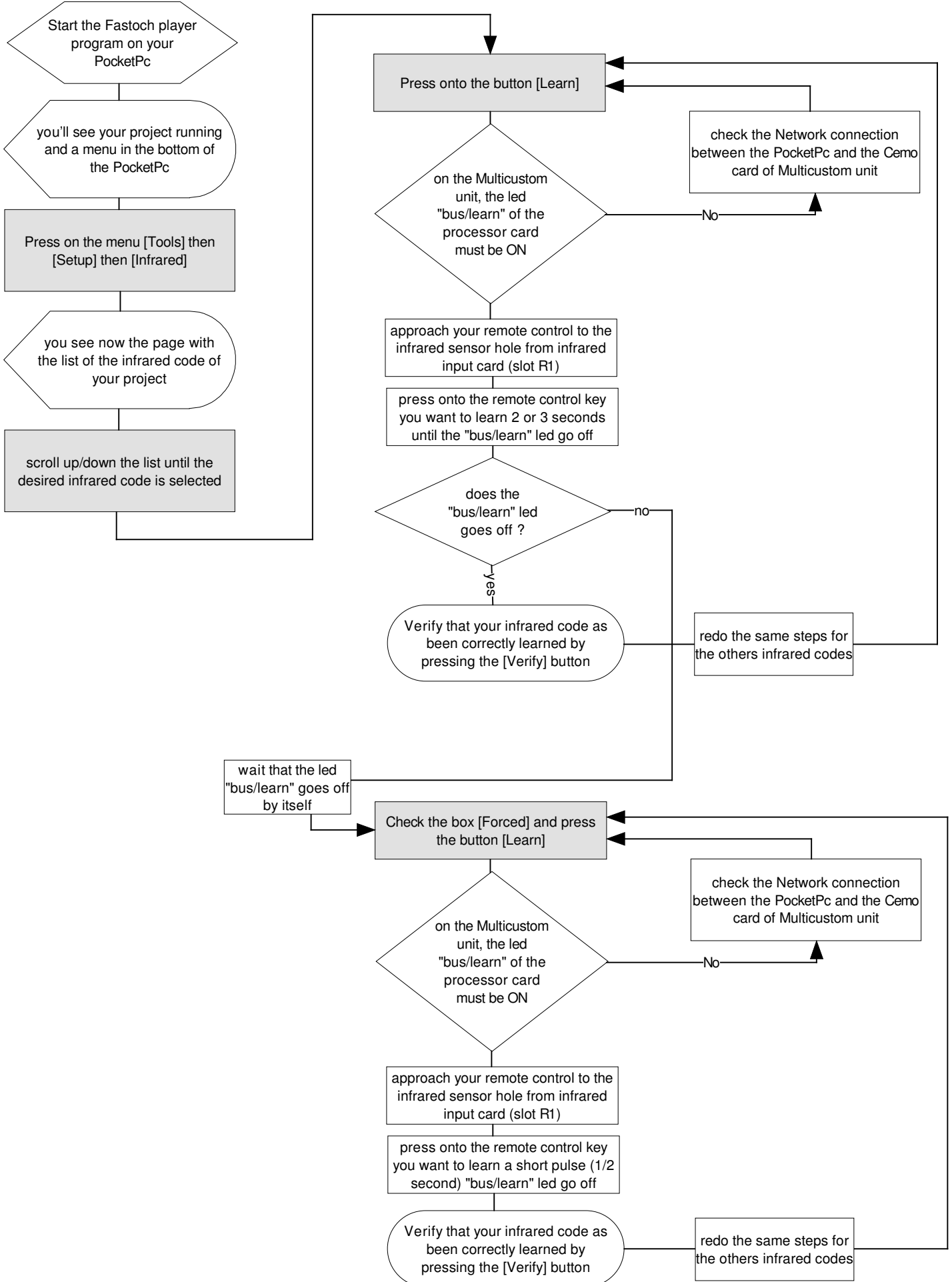
When learning the infrared codes of your installation in the Multicustom unit use either IrDump of the internal menu of the touchpanel to place the unit in the learning mode.

- approach your remote control to the infrared sensor hole of the MCM-IRX from approximately 5cm, then :
 - when learning using the "Normal learn" mode, press on the key of your remote until the learning led of the processor card lights OFF
 - when learning using the "Forced learn" mode, press as a short pulse onto the key of your remote, the learning led of the processor card will light OFF and the Multicustom unit will have learnt the signal in the same manner, a short pulse on the remote will mean a short signal, a long pulse on the remote will give you a longer signal.

Learn infrared codes from a Tactum panel



Learn infrared codes from a PocketPc panel



Learn infrared codes from a Tactum CE380 panel

