ITEC NET

ITEC NET

UP REMOTE CONTROL PANEL

MANUAL VERSION 1.1, OCT 2014

ITEC

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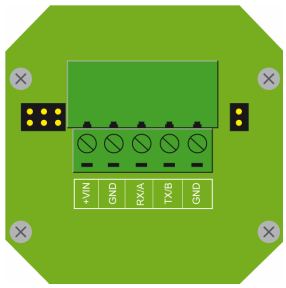
HARDWARE DESCRIPTION

Hardware overview and wiring diagram

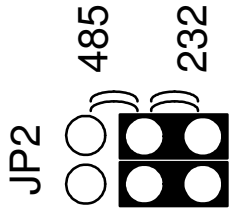
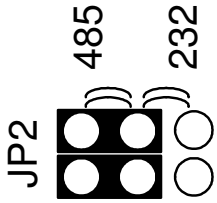
At the back of the Panel are three different connectors, two jumper for mode selection and a five pole Phoenix connector.



Name	Remark
+Vin	Supply Voltage (10..24V)
GND	Supply Voltage Ground
RX/A	Data Receive
TX/B	Data Transmit
GND	Data Ground

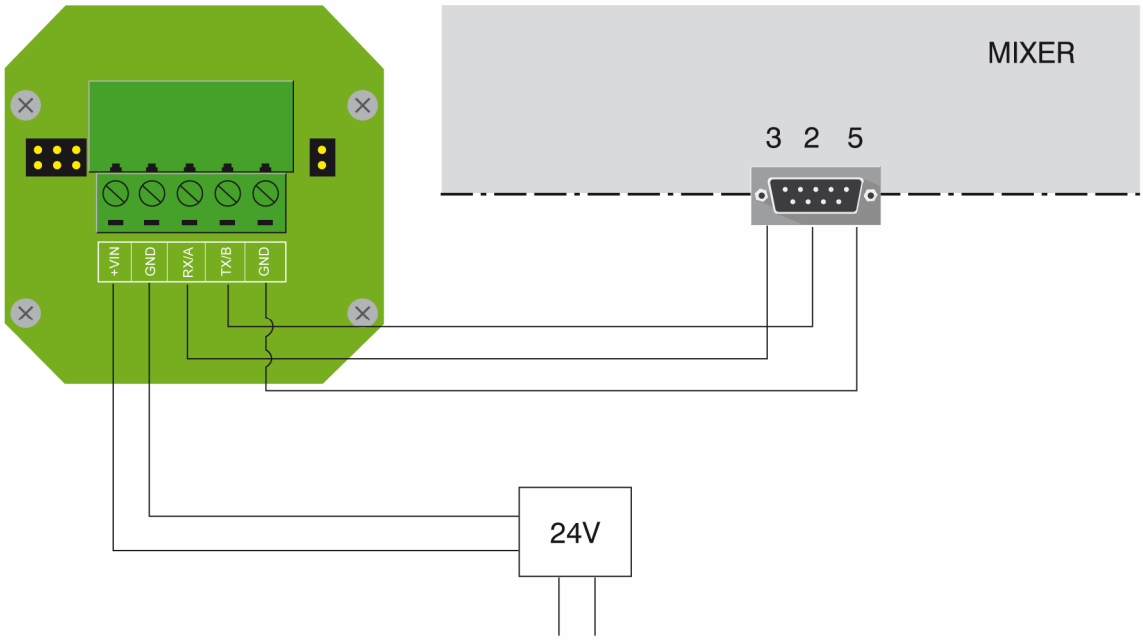
There are two different communication interfaces available, RS232 and RS485. RS232 is best used in combination with a single panel, short cable length and direct connection to a MultiMix. If longer cable ranges or multible panels are required, it is necessary to use a RS485 (two wire) bus.

The mode is selected with the jumper 2 (JP2) at the back of each panel.

	
RS232 mode	RS485 mode

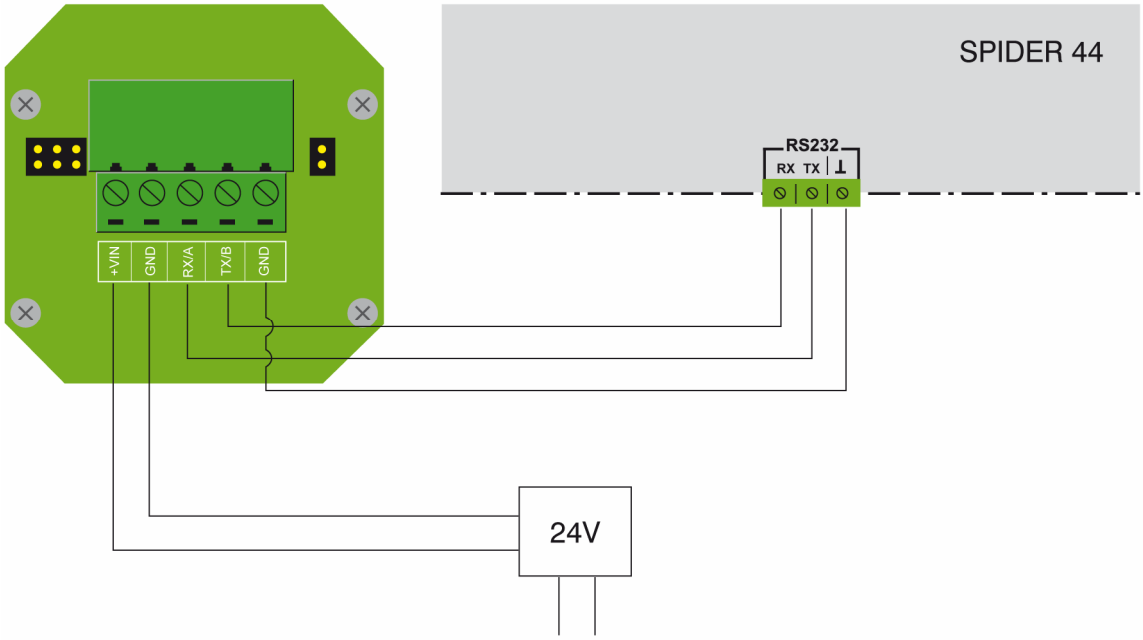
If transmission errors occur while in RS485 mode, a 120 Ohm termination resistor should be used. Do this by setting the jumper (JP1) at the first and the last module connected on the bus.

Example : Connecting a Panel to a MultiMix



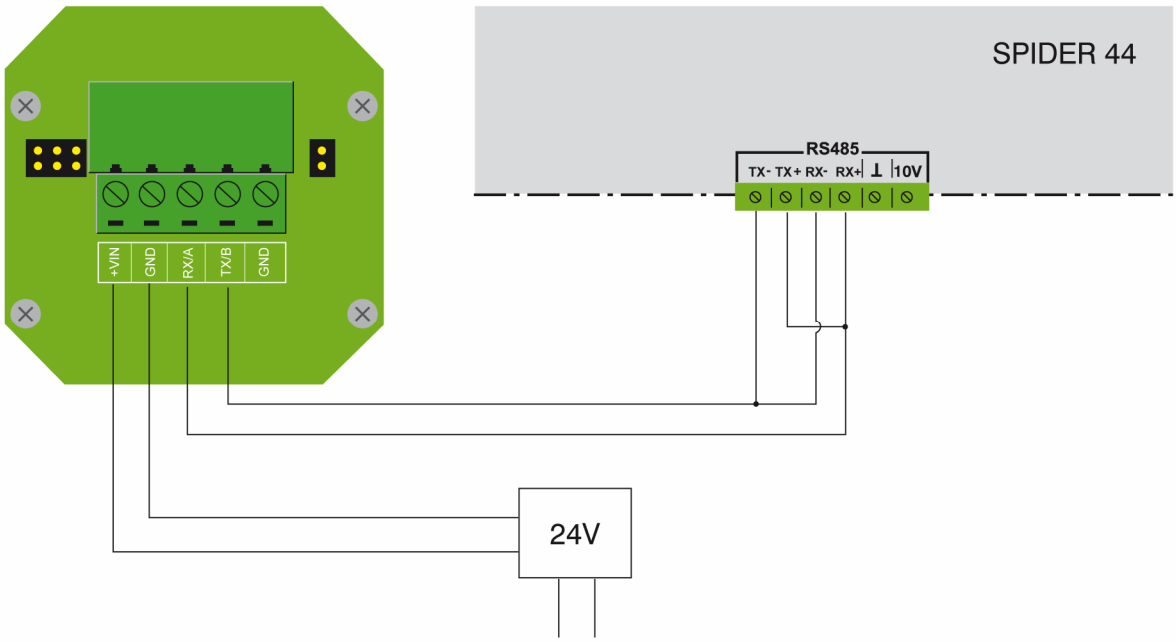
Connect the data cable at the backside of the MultiMix labeled “RS232 REMOTE”. To supply a voltage to the panel, use an external power supply.

Example : Connecting a Panel to a Spider44 via RS232



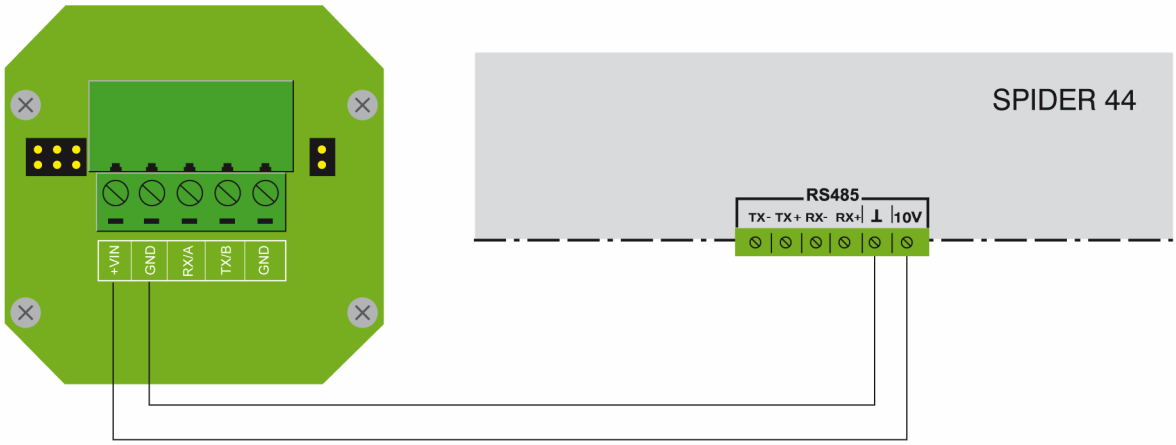
At the back of the Spider is a 3 pole phoenix connection labeled “RS232”, connect the panel according to the diagram above. To supply a voltage to the panel, use an external power supply or the internal Spider 44 10 V supply.

Example : Connecting a Panel to a Spider44 via RS485



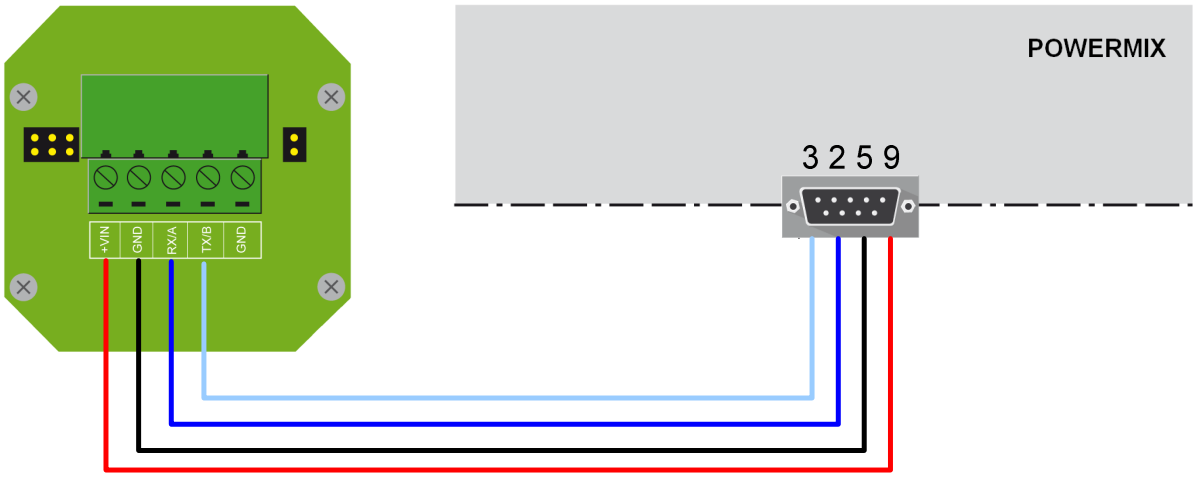
At the back of the Spider is a 6 pole phoenix connection labeled “RS485”, connect the panel according to the diagram above. To supply a voltage to the panel, use an external power supply or the internal Spider 44 10 V supply.

Example : Using the Spider44 as supplyvoltage for the Panel



It is possible to directly use the voltage supplied by the Spider44. This method is reasonable for short cable distances.

Example : Connecting a Panel to a PowerMix

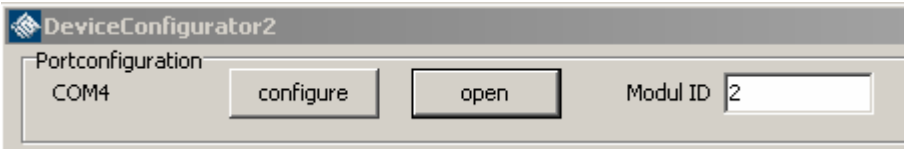


Connect the data cable at the frontside of the PowerMix labeled “RS-232 REMOTE”. In case of CAT wiring, use 2 wires for each line in the schematic above. If the cable is shielded, connect the shield to the ground = pin 5.

Device Configurator 2

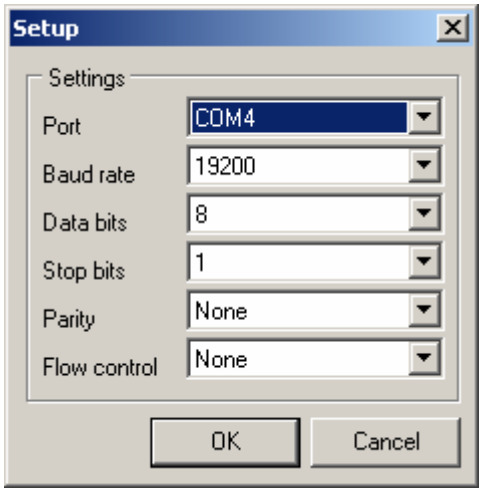
The easiest way to configure the ItecNet Panel is the “DeviceConfigurator 2” software. To configure a panel, connect it directly via RS232 to the configuration PC.

Portconfiguration



“open”
Open the selected comport, displayed at the left side of the box.

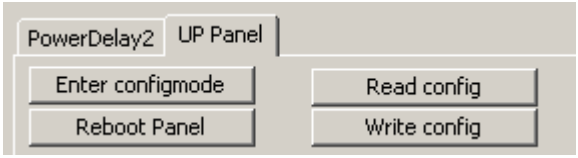
„configure“
Shows a comport setup dialog. Please choose the Port where the Panel is connected to.



Default setting:

Port	COM1
Baud rate	19200
Data bits	8
Stop bits	1
Parity	None
Flow Control	None

UP Panel Commands



„Enter configmode“
If the Panel is connected correctly, the LCD will diplay the text “UART Config”. Now the device is ready for reconfiguration. If you encounter difficulties during this step, please check the Q&A section for this problem.

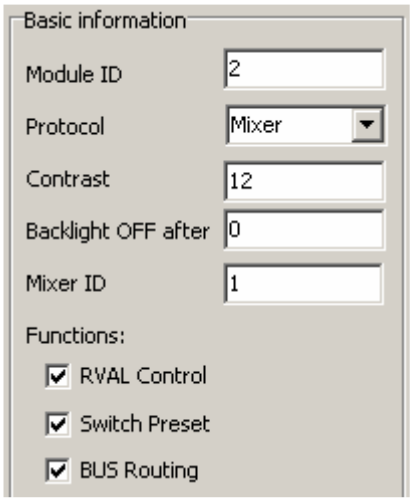
“Reboot Panel”
Discard all unsaved changes and reboot the panel.

“Read config”
Read all configblocks from the device and display the information.

“Write config”

Write the configuration to the device. The progress of the flash operation is displayed in the lower left corner of the software.

Basic Information



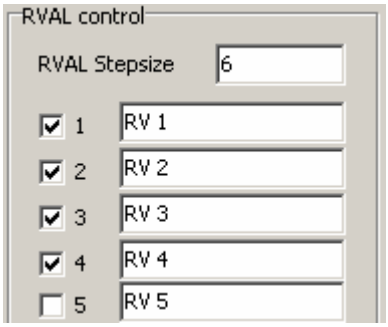
Module ID	Set the Module ID of the panel. This step is only necesarry in combination with a ITEC Net Spider44 (default = 2)
Protocol	Choose the device connected to (Mixer or Spider)
Contrast	Change the contrast of the display
Backlight OFF after	Set a time in seconds after the display backlight will be turned off. Enter zero to disable this function.
Mixer ID	Set the Mixer ID of the target Mixer, usually this is “1”
Functions	Select the functions available for the user. For more information read the following chapter.

Functions

Rval control

Each checkbox enables the RVAL for selection on the display. To distinct between several different RVAL, it’s recomended to enter a name.

The RVAL stepsize is used to control the speed of the slider. The default value is 6 dez which means 3dB per button press on the panel.



Presetnames

Enter the number of configured presets in the „# Presets“ field. Enter a presetname in each editbox. These names will be shown to the user on the LCD Display.

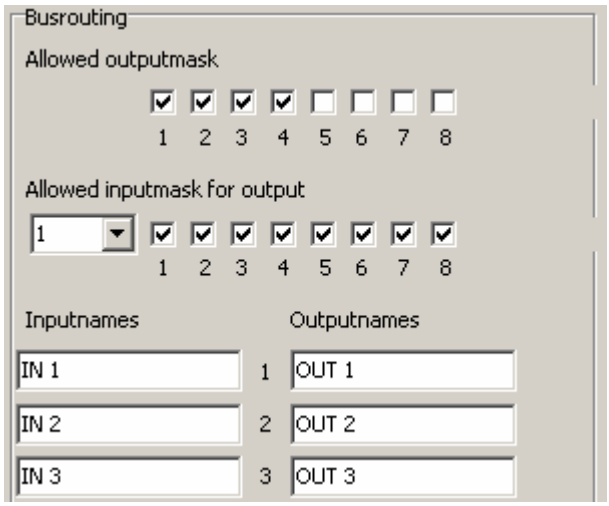
Busrouting

This function allows the user to control the audio busrouting. It’s possible to select different inputsources for an output.

“Allowed outputmask”
Enable an output by activating the checkbox. This output will be displayed on the remote panel.

“Allowed inputmask for output“
First select an output from the drop down menu. Next choose the inputnumbers, from whom the output is able to choose.

“Input / Outputnames”
Improve the usability by naming each audio plug.



Q & A

I am unable to connect to the device

- Check the jumper JP2 is set. If no jumper is available, the panel is unable to communicate.
- Check if the data signals RX/TX are connected correctly. Maybe they need to be crossed.
- Check if you choose the right comport in the configuration software.
- Check if the device is in UART configmode, before you try to safe the changes done.