Connection Terminal CON R AUX for CS121

Description & Functions

The connection terminal CON_R_AUX for the CS121 is an expander rack to the connection of the AUX port of the CS121 SNMP adapter.

The CS121 SNMP adapter provides the opportunity to set up 4 AUX ports as INPUTS - or OUTPUTS or a combination of both. (fig. 1). Any type of potential-free contacts (dry contacts) are monitored through those kinds of ports and switching operations may engaged/ disengaged via the potential-free NO (normally open) relay contacts of the CON_R_AUX.

Each of the 4 AUX ports may set up either as INPUT- or OUTPUT. The current states of the relays are displayed in the CS121 AUX & SensorMan status (fig. 2).

The connection terminal CON_R_AUX for the CS121 provides the opportunity to connect directly to the screw terminals (X1.1-X1.8) of the bared cable ends of the sensors, detectors or actuators.

Please note, that the cable length of the connected device does not exceed 100m. The CON_R and CON_R_AUX need no longer the previously in the user manual described pull-up resistors. The CON_R series are ready to be used directly with any external dry contact device.

Configuration and status page of the CS121 AUX ports:

Fig.1: CS121 Configuration COM2 & AUX

Fig.2: CS121 AUX Status

AUX ports as inputs:

If you configure an AUX port as INPUT, you can read in the status of a potential-free contact (motion detector, fire detector, relay contact etc.). You can create CS121 events for the incidents (alarmlog, email, RCCMD etc. (fig. 3)). Furthermore an active INPUT is displayed through the green LED of the CON_R_AUX. The relay is pulling in during an accordant jumper-position and the NO contact is closing.
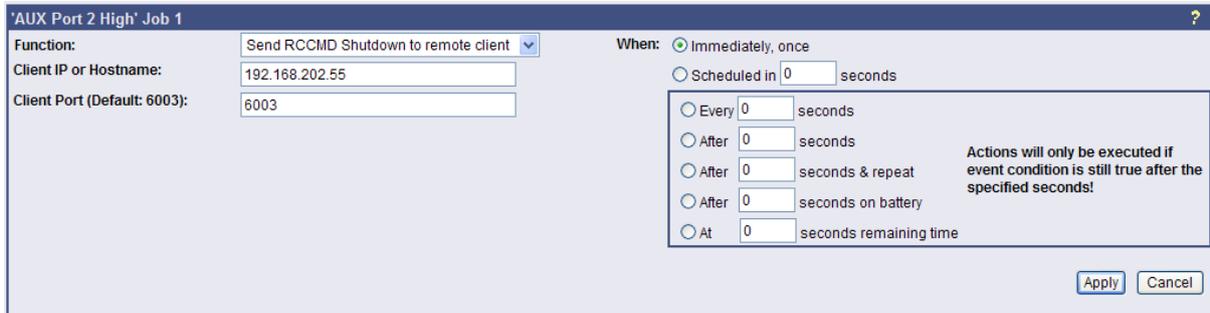
Fig.3: examples for Job 'AUX Port 2 High'

AUX ports as outputs:

If you configure an AUX port as OUTPUT, the potential-free NO contact will close during an activation. This activation may be manually – via the Web-Interface – or may be made as well automatically as reaction to an EVENT of any other device or alarm the CS121 can monitor. (fig. 4). You can switch 48VAC/0,5A oder 24VDC/1A about this potential-free NO contact.

Furthermore the potential-free NO contact is closing automatically if the Jumper JP1 -4 are closed. So automatically an INPUT signal on this port triggers the relays to close. This may be useful if you want automatically a relay to close when an alarm is present on the same input channel.
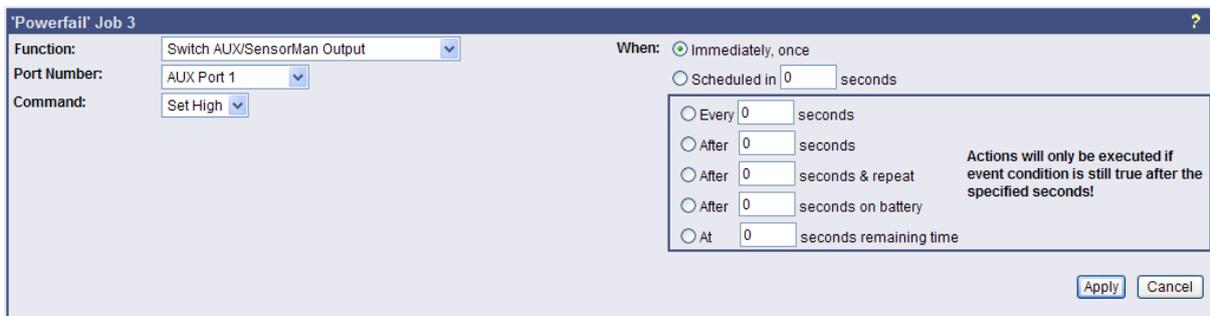
Fig.4: examples for Job 'AUX Port 2 High'

If you define an output as „normally closed" (NC), it is required, that this port will be set to low after the reboot of the CS121. The optimal fitting might be the event „UPSMAN started".
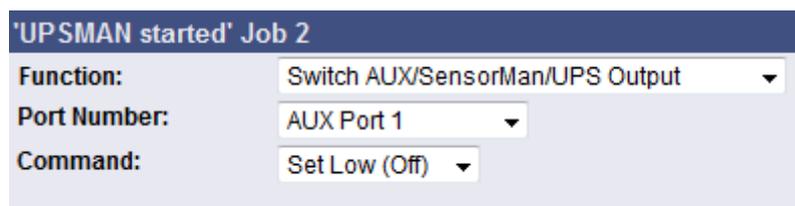
Fig.5: Configuration Set AUX Port Low

Connections (terminal cable with 0,4mm² - 1,5mm² diameter):

|	
X1.1	12VDC
X1.2	Channel 1 / Input
X1.3	12VDC
X1.4	Channel 2 / Input
X1.5	12VDC
X1.6	Channel 3 / Input
X1.7	12VDC
X1.8	Channel 4 / Input
X2.1	NO-Contact Channel 1
X2.2	Relay COM Channel 1
X2.3	NO-Contact Channel 2
X2.4	Relay COM Channel 2
X2.5	NO-Contact Channel 3
X2.6	Relay COM Channel 3
X2.7	NO-Contact Channel 4
X2.8	Relay COM Channel 4
X3 / +	Output 12VDC
X3 / -	GND
X4 / +	Output 12VDC
X4 / -	GND
X5	Rj11-Buchse/Verbindung AUX-Port Cs121
X6 / +	Output 12VDC
X6 / -	GND
X7	Output 12VDC
X8	Input 12VDC/500mA
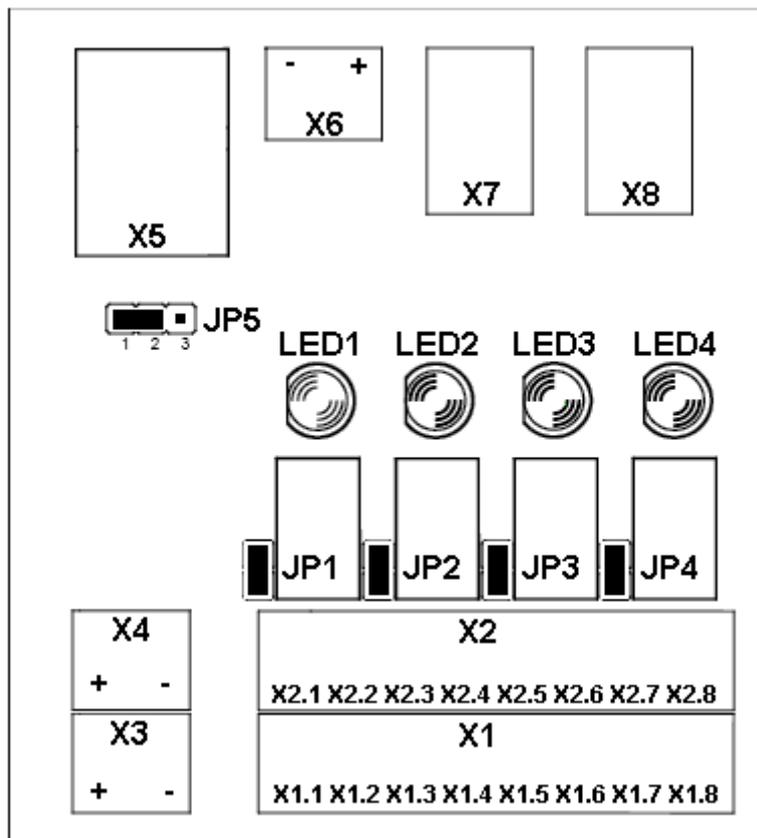
Fig.: Con_R_AUX

Jumper-positions:

Jumper **JP5** on pin1 + pin2 (default status): Pull down resistors at the AUX inputs, hardware sided is input NO:
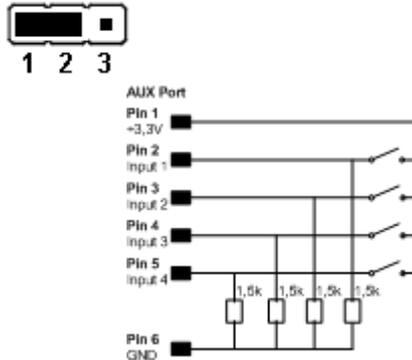
Fig.:Pull down schematic

Jumper **JP5** on pin2 + pin3: pull up resistors at the AUX inputs, hardware sided is input NC (normally closed contact):
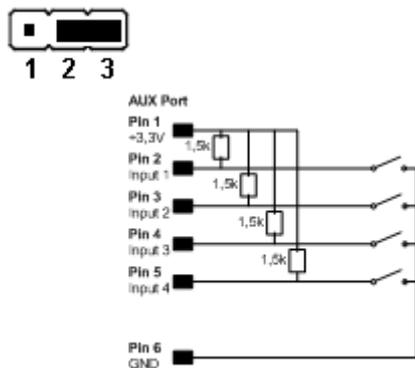
Fig.:Pull up schematic

The jumpers **JP1, JP2, JP3 and JP4** (default status: jumper set, pins connected) define if the relays/potential free contacts are activated or not. If you disconnect the jumpers the relays and the potential-free contacts will be deactivated (jumpers taken away, pins open). The green LED shows now only the status of the inputs.
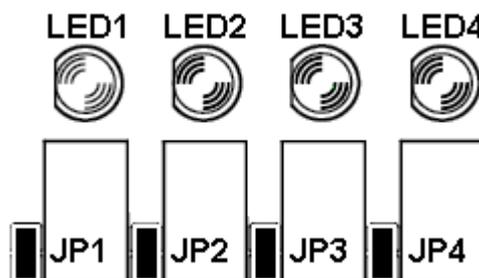

Fig.:Jumper 1-4

Setup:

Set up the CS121 SNMP adapter for the CON_R_AUX in the menu COM2&AUX. Set the jumpers on your CON_R/CON_R_AUX to your desired function. (activate relay or only manage inputs). Save & Exit & Reboot your CS121 and wait until the device has restarted.

Connect now your sensors, detectors and actuators to the screw terminals and connect the AUX port of the CS121 SNMP adapter with the delivered RJ 11-cable (max. 5m) to the RJ11-socket of the CON_R_AUX.

Plug the power supply (12V/500mA) into the CON_R_AUX input (X8).

Check and test your configuration!