

Connection Terminal CON_AUX for CS121

Description & Functions

The connection terminal CON_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_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_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 1m. The CON_AUX series need no longer the previously in the user manual described pull-up resistors. The CON_AUX series are ready to be used directly with any external dry contact device.

Configuration and status page of the CS121 AUX ports:

Port	Name	Usage	NC contact	Switch on CS121 Powerup	Powerup Delay (seconds)
1	AUX Port 1	Output	<input type="checkbox"/>	<input type="checkbox"/>	0
2	AUX Port 2	Input	<input type="checkbox"/>	<input type="checkbox"/>	0
3	AUX Port 3	Unused	<input type="checkbox"/>	<input type="checkbox"/>	0
4	AUX Port 4	Unused	<input type="checkbox"/>	<input type="checkbox"/>	0

Write logfile entry on AUX output:

SS4Mode: Off

Apply

Fig.1: CS121 Configuration COM2 & AUX

1: AUX Port 1	2: AUX Port 2	3: AUX Port 3	4: AUX Port 4
OFF	ON	UNUSED	UNUSED
Switch On			

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_AUX. The relay is pulling in during an accordant jumper-position and the NO contact is closing.

'AUX Port 2 High' Job 1

Function: Send RCCMD Shutdown to remote client

Client IP or Hostname: 192.168.202.55

Client Port (Default: 6003): 6003

When: Immediately, once
 Scheduled in 0 seconds

Every 0 seconds
 After 0 seconds
 After 0 seconds & repeat
 After 0 seconds on battery
 At 0 seconds remaining time

Actions will only be executed if event condition is still true after the specified seconds!

Apply Cancel

Fig.3: Bsp. für Job 'AUX Port 2 High'

AUX ports as outputs:

If you configure an AUX port as OUTPUT, at activation a voltage of 3,3V/10mA is suited, whereby you can connect a optocoupler, a transistor or an LED. 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).

'Powerfail' Job 3

Function: Switch AUX/SensorMan Output

Port Number: AUX Port 1

Command: Set High

When: Immediately, once
 Scheduled in 0 seconds

Every 0 seconds
 After 0 seconds
 After 0 seconds & repeat
 After 0 seconds on battery
 At 0 seconds remaining time

Actions will only be executed if event condition is still true after the specified seconds!

Apply Cancel

Fig.4: Bsp. für 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“.

'UPSMAN started' Job 2

Function: Switch AUX/SensorMan/UPS Output

Port Number: AUX Port 1

Command: Set Low (Off)

Fig.5: Configuration Set AUX Port Low

Connection Con AUX:

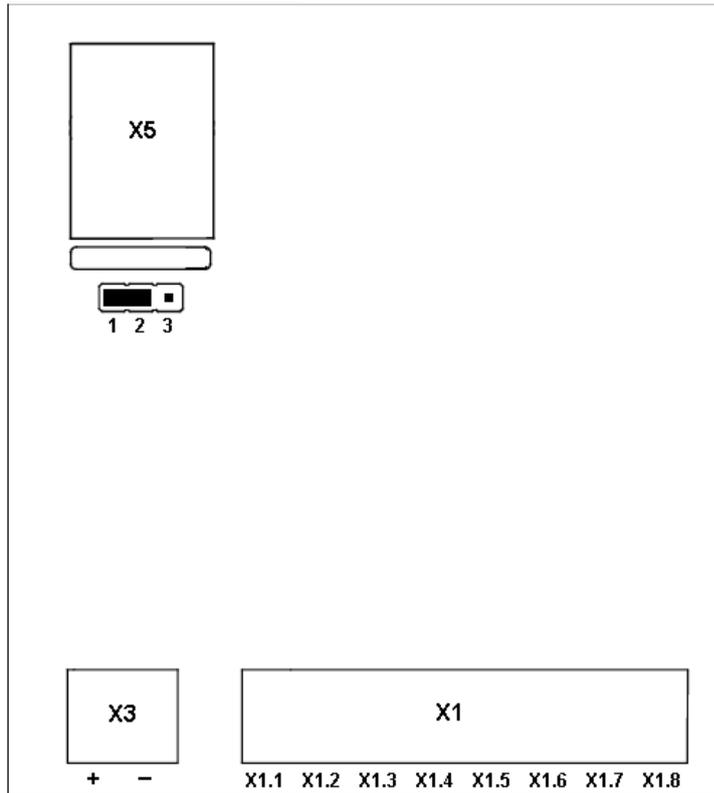


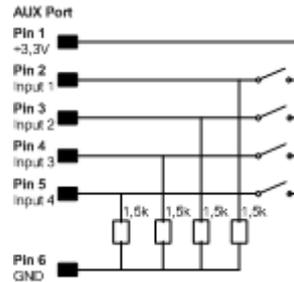
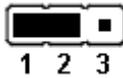
Fig.: Con_AUX

Connections:

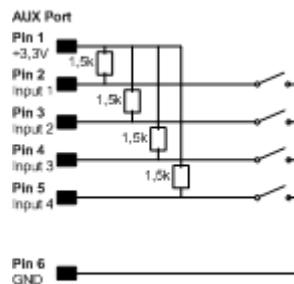
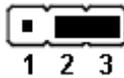
X1.1	+3,3V
X1.2	AUX 1 (Input max. 3,3V / Output: 3,3V/ max.10mA)
X1.3	+3,3V
X1.4	AUX 2 (Input max. 3,3V / Output: 3,3V/max. 10mA)
X1.5	+3,3V
X1.6	AUX 3 (Input max. 3,3V / Output: 3,3V/max. 10mA)
X1.7	+3,3V
X1.8	AUX 4 (Input max. 3,3V / Output: 3,3V/max. 10mA)
X3 / +	+3.3V
X3 / -	GND
X5	Rj11-Buchse/Verbindung AUX-Port Cs121

Jumper-positions:

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



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



Setup:

Set up the CS121 SNMP adapter for the CON_AUX in the menu COM2 & AUX. Set the jumpers on your CON_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 to the RJ11-socket of the CON_AUX. Check and test your configuration!