

Quickstart

Studer Modul for IP-Symcon

Studer-Innotec

- <https://www.studer-innotec.com/en>

Studer Innotec manufactures its inverter/chargers and MPPT charge controllers in Switzerland, according to the best practices of the country, so that they fulfil their promise in offering an excellent return on investment.

IP-Symcon

- <https://www.symcon.de/en/>

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1 INTRODUCTION

This Module is used to monitor Studer-Innotec Device such as XTH/XTS/XTM, Variostring/Variotrack and other in IP-Symcon.

2 STEP-BY-STEP START

2.1 HARDWARE SETUP

In order to communicate with the Xcom-485i gateway and your “IP-Symcon” we recommend using a Modbus IP-Gateway (exempl. Moxa MGate MB3180)

- <https://www.moxa.com/en/products/industrial-edge-connectivity/protocol-gateways/modbus-tcp-gateways/mgate-mb3180-mb3280-mb3480-series/mgate-mb3180>



Inside the Xcom-485i, a jumper array lets you select the pin assignment of the RJ-45 connector, as depicted above. This configuration is an example, and you could do it as you want. Be sure to set your desired Address Offset and Baud rate with the dip switches located inside the Xcom-485i gateway, configurations are shown in the tables below.

Position		Address Offset	Address range
1	2		
OFF	OFF	0	(0) 1 to 63
	ON	32	(0) 33 to 95
ON	OFF	64	(0) 65 to 127
	ON	128	(0) 129 to 192

Position		Baud rate
7	8	
OFF	OFF	9'600 bps
	ON	19'200 bps
ON	OFF	38'400 bps
	ON	115'200 bps

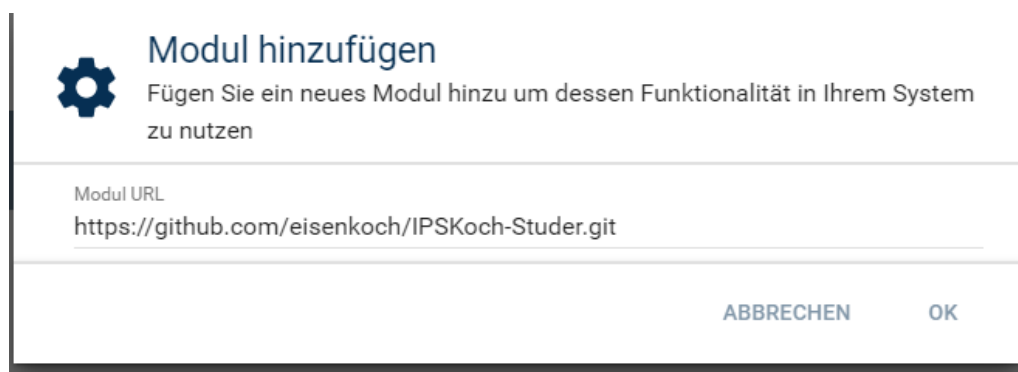
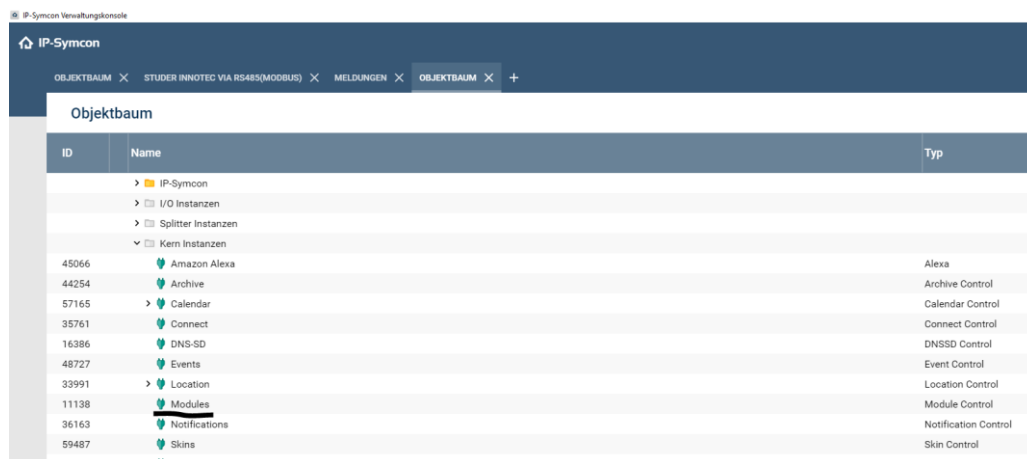
On the IP-Gateway configure the Port as a “RTU Slave” and the Serial Settings as follow:

- Baud rate: **9600**; Parity: **Even**; Data bit: **8**; Stop bit: **1**; Flow control: **none**; FIFO: **enable**;
Interface: **RS-485 2-wire**

2.2 Software Setup

To add the Modul into IP-Symcon add the Git-URL into the Modules Section

- <https://github.com/eisenkoch/IPSKoch-Studer.git>



After finishing this you can now add the Device Instance “Studer Innotec via RS485(modbus)” to your System.



Instanz hinzufügen

Instanzen repräsentieren die verschiedenen Geräte in Ihrem Projekt

Typ	Hersteller	Schnellfilter
- Alle Typen -	- Alle Hersteller -	rs48
Hersteller	Gerät	
Studer Innotec	Studer Innotec via RS485(modbus)	
Name		
Ort		
IP-Symcon		
Visuelle Einstellungen		
Weitere Einstellungen		
ABBRECHEN OK		

As a last Step configure the right IP-Address of your Gateway and the used Port for this Instance.

Instanzkonfiguration

✓ Instanz ist aktiv	
Modbus Gateway IP	Darstellung Werte
192.168.178.155	get summary of Values if more then one Device
lbl_RS485_Port	BTN_RECHECKVAR
520	