Handling short instructions for Processing energy data from SPS / LOGO!



Connection of the device

The EtherSens gets directly supplied from the Line L1 with voltage (100-240V AC 50-60 Hz) via the clamping connections. If you also want to do current and power measurements you will also have to connect the Rogowski coils with the device.

Access to the device

The access to device can be done via WLAN (SSID "EtherSens WiFi" - IP address 192.168.1.58) or via LAN (IP address 192.168.1.59).

Please open the web interface of the device and log in on the device via the menu item "log in" (without a password), so you can start the configuration.

Important: Please make sure that before you start with the further configuration the network and WLAN parameters fits to your network and PLC. You can change this parameters on the menu item "system" \rightarrow "network and WiFi".

>> Further information about the respective configurations parameters can be found in the manual of the EtherSens within the chapter "Web server".

Create PLC connection

On the EtherSens you will first have to create the connection to the PLC. Please navigate to the page "process" \rightarrow "devices" and fill in the last line of the table as follows:

name:	freely selectable
interface:	RFC1006
network interface:	interface where the controller is connected to
IP address:	see table
rack:	default value see table
slot:	default value see table

controller type and access type	needed hardware	IP address	rack	slot
S7-200 via PPI	S7-LAN	IP from S7-LAN	0	2
S7-300/400 via MPI/DP	S7-LAN	IP from S7-LAN	0	2
S7-300/400 via Ethernet-CP	-	IP from PLC	0	2
S7-1200/1500 via Ethernet	-	IP from PLC	0	1
LOGO! via Ethernet	-	IP from PLC	0	1
S5 via PG port	S5-LAN++	IP from S5-LAN++	0	2

Next you have to click on the + symbol to add the entry and finally on the "save" button.

Create PLC value

If you now want to transfer a process value from your EtherSens (e. g. a voltage or current value) to you PLC, you will first have to create a new process value. For this please navigate to the page "process" \rightarrow "process value" and fill in the last line of the table:

1 second (higher or lower as needed)
freely selectable
-
not set
not set
not set

Afterwards you have to click on the + symbol to add the entry. Now a dialog should be opened where you can select the previously created PLC connection as a device. As soon as you have confirmed this dialog another dialog with some further parameters will be shown:

register:	target value in the PLC (e. g. DB10.DBD24)
format:	float
type:	write
power fail value:	not set

Important: The here used format "float" is equivalent to the S7 format REAL. If you want to use the S7 format DINT for integers you will need to select the format "decimal" above.

Finally you have to click on the "Save" button.

If you want to transfer multiple values from your EtherSens to your PLC, you will just need to repeat the steps above as often as needed.

Link PLC value to process value

In the last step you will have to link the newly created PLC value to the process value. For this please swap to the page "process" \rightarrow "calculations" and search for your created PLC value. In this line you will now have to select "=" as "type 1" and enter the name of the process value within the field "value 1", which you want to link to, with a preceded @ sign (e. g. "@Voltage L1 (rms)"). Afterwards you will have to confirm your changes by clicking on the button "save".

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 - + Process energy-data with LOGO!-C

QR-Code Website:





Please make sure to update your drivers before using our products.

Automatical backup of your PLC



Guaranteeing security against production-downtimes through regular backups of S5- or S7-PLCs on your PC. S5/S7/H1-backup/restore-software saves all projected controls at a predetermined time. Whether every minute, hourly, daily, weekly or once a month, the PLC is completely read out and saved on the hard-disk/network-drive of the computer. If the backup-battery fails or the PLC is damaged, you can use this backup-file to restore the PLC.



Move wirelessly around the S7-PLC and communicate for example ONLINE in the status

Visualisation of your S7- PLC via COM-Port



Your panel provides a serial port and no MPI/Profibus for connecting a S7-PLC. Connect the MPI/PPI-cable with it and you're Online with your panel.