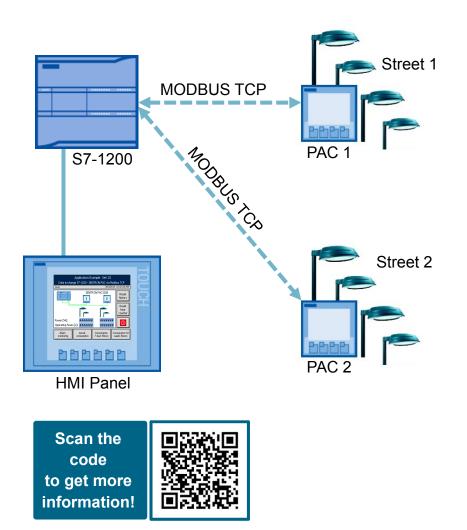
Set 22 – Data Communication between S7-1200 and SENTRON PAC3200 via MODBUS TCP Task



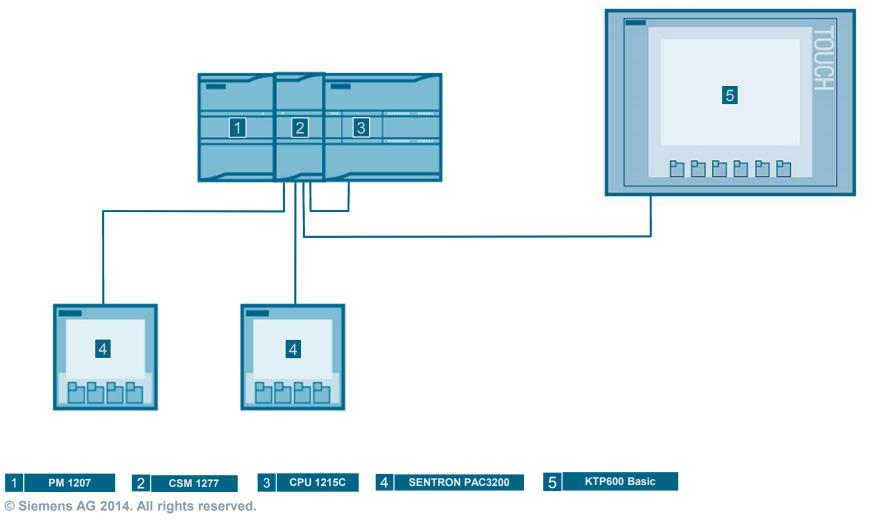
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 The energy consumption of two sets of lamps is to be captured and displayed.

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- If the value falls below or exceeds a certain consumption that can be defined, a message with a time stamp is to be generated to record the fact.
- The overall energy consumption of all streets is to be displayed as a time course.
- The daily energy consumption is to be depicted in a weekly overview.
- After one week, the weekly energy consumption is calculated from the daily energy consumption.
- The operating hours are to be captured and be reset after maintenance.

Set 22 – Data Communication between S7-1200 and SENTRON PAC3200 via MODBUS TCP Automation Solution



http://support.automation.siemens.com/WW/view/en/40614428

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Set 22 – Data Communication between S7-1200 and SENTRON PAC3200 via MODBUS TCP Main Components



		Product	Function description
1		Power supply S7-1200 PM 1207 Article no. 6EP1 332-1SH71	Power supply for the CPU 1215C and KTP600 Basic
2		Compact Switch Module CSM 1277 Article no. 6GK7277-1AA10-0AA0	Ethernet switch for expanding the number of ports to 6 ports
3		CPU 1215C, DC/DC/DC Article no. 6ES7 215-1AG31-0XB0	Evaluation of the power consumption
4	Kingsonn RCcol 2 230. 2230. 1000000000000000000000000000000000000	PMD SENTRON PAC3200 Article no. 7KM2112-0BA00-3AA0	Device to be fitted in a switchboard for measuring the power and its transmission to the control system
5		SIMATIC HMI KTP600 BASIC COLOR PN Article no. 6AV6 647-0AD11-3AX0	 Displaying the energy consumption for a day, a week and the whole year Displaying warning if the values fall below a certain power consumption or exceed it

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Set 22 – Data Communication between S7-1200 and SENTRON PAC3200 via MODBUS TCP Main Components



		Product	Function description
6	NAMES AND SIMATIC	SIMATIC STEP 7 BASIC V13 Article no.	 Software for programming the CPU 1215C Configuration of the KTP600 Basic Panel
		6ES7822-0AA03-0YA5	

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Set 22 – Data Communication between S7-1200 and SENTRON PAC3200 via MODBUS TCP Further Information



Benefits

- Maintenance work considerably reduced since short-circuits and lamp failures are reported
- Since the operating hours are recorded, the time when the lamps must be replaced can be calculated

Range of use

Street lighting

Similar topics

 Detecting overloads and automatic switch-off of prioritizable loads by means of SENTRON PAC3200 via the Modbus-on-TCP communication (Set 24)

Further information

- LOGO! and S7-1200 Sets: <u>www.siemens.de/support.automation.applikationen</u>
- Service and Support Portal: <u>http://support.automation.siemens.com/</u>

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Set 22 – Data Communication between S7-1200 and SENTRON PAC3200 via MODBUS TCP Security Information



For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <u>http://www.siemens.com/industrialsecurity</u>.