

S1XMmM

Universal Current/Voltage Converter and Analyzer



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The S1XMmM is the **first all in one current/voltage converter & analyzer** on the Automation market. One DIN rail in size, suitable for any electrical distribution boards, allows you to measure the values of both CURRENT and VOLTAGE measured by any of the isolated primary current sensor available on the market. The device has a Temperature Input for PT100 2 or 3 wires or NTC (10k or 100k ohm). Analog output, digital output (both fully configurable) and RS485 Modbus RTU to connect to a datalogger and remote monitoring system. Conversion from ANY CURRENT/VOLTAGE Transformers: The S1XMmM is suitable to read any current probes or voltage transformer. You have to connect your probe to the right connectors and configure the device with the free Configuration software.

| S1XMmM | S1XMmMH |
|------------------------------|-------------------------------------|
| Measured data: | All features of S1XMmM plus: |
| ▶ RMS: Max, Min, Average, Ah | ▶ Peak |
| ▶ DC: Max, Min, Average, Ah | ▶ THD |
| ▶ AC: Max, Min, Average, Ah | ▶ harmonics up to the 63rd |
| ▶ crest factor | ▶ internal product temperature |
| ▶ frequency | |
| ▶ temperature (PT100 / NTC) | |

You can connect:

- ▶ ROGOWSKI probes (all types);
- ▶ CURRENT TRANSFORMERS secondary 1A / 5A;
- ▶ CURRENT/ VOLTAGE TRANSFORMERS secondary +/-10Vpk or +/- 1 Vpk ;
- ▶ CURRENT/ VOLTAGE TRASDUCERS with secondary 100mA ac/dc;
- ▶ HALL'S EFFECT, included its Power supply (+/-15V dc).



Any questions?

Don't hesitate to contact me if you have any further questions.

Mario Lenotti, Innovation



📧 mario.lenotti@tele-haase.at

☎️ +43 / 1 / 614 74 - 656

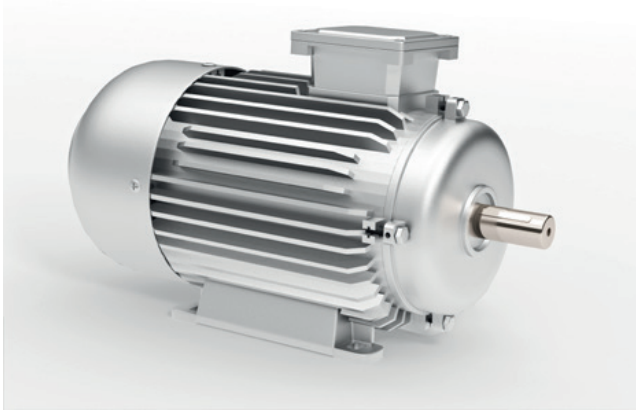
S1XMmM

SUCCESSFUL APPLICATIONS:



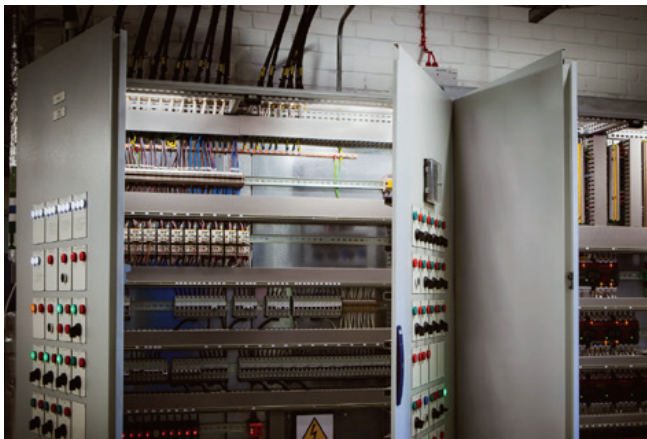
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MOTOR APPLICATIONS



The S1XMmM can acquire at the same time the TEMPERATURE and the CURRENT MEASUREMENT in motor applications (one per phase). The information acquired can be connected to a datalogger or monitoring system with RS485. This will allow the technician to understand the efficiency of the motor by analyzing the data. The S1XMmM supports any type of current probe as well as PT100 2-3 wires or NTC (Temperature Probes). The S1XMmM is the best solution to update or monitor an existing installation. You can also collect other information from the device like the MIN, AVERAGE, MAX Current or the Ah.

POWER FACTOR CORRECTION



The S1XMmMH can be used to control the efficiency of the Capacitors installed to correct the Power Factor. Using the existing Current Transformer installed for each group of capacitors, the S1XMmMH is able to measure the THD (Total Harmonics Distortion) and the Harmonics Analysis (up to the 63rd) to understand if they are working optimal, or if they are damaged or if they need to be replaced soon. The S1XMmM is equipped with RS485 Modbus RTU and can be connected to a datalogger or Monitoring System. With a monitoring system, maintenance technicians can remotely connect to check the status of the capacitors before going to the installation. A digital alarm contact can be programmed to send alarms.

MAIN CUSTOMERS ACTIVITIES



Paper and Steel Mills have many motors installed in the plant. The motors need to be monitored in their DCS to plan for periodic Maintenance activity.

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SUCCESSFUL APPLICATIONS:



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WATER INDUSTRIES



Have many Motor and Pump stations. They have to carefully monitor the efficiencies of the motors in respect of the Power Factor. Max demand can also be monitored and controlled to avoid penalties from the Energy distributor.



HALL EFFECT PROBES

In DC applications it is not always possible to switch off the power supply to install the probes, so you have to use SPLIT CORE probes. The HALL EFFECT probes required a DUAL POWER SUPPLY (typical +/- 15 V DC). The S1XMmM supplies the +/- 15 V DC to the Hall's effect probes and reads the information from the probe at the same time. No other external power supply is needed to use a HALL EFFECT probe connected to the S1XMmM.

MEDIUM VOLTAGE TRANSFORMERS

The S1XMmMH is a cheap solution to control the quality of the Current input in a Medium Voltage Transformer. The S1XMmMH gives you the Harmonics analysis of the Current flowing through the transformer and at the same time you can measure the Temperature. You can also program the alarm contact of the THD value to send a alarm via RS485 Modbus to the datalogger or remote monitoring system.

MANUFACTURERS/DISTRIBUTORS OF CURRENT PROBES:

The IoT revolution is forcing customers to connect all sensor installed to a monitor system. ALL the Current Probes/Transformers of the SENSact range, can be integrated into a Remote Monitoring network.



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