SAFETY INFORMATION

This section contains safety information that must be observed at all times when working on or with the product. To prevent personal injury and property damage and to ensure long-term operation of the product, read this section carefully and observe all safety information at all times.

DANGER

To danger life due to electric shock

- Voltages are present in the live components.
- Disconnect the connection point from voltage sources and make sure it cannot be reconnected.
- Before performing any work on the Energy Meter, disconnect the grid side from all voltage sources using the installed disconnect switch.
- Ensure that the conductors to be connected are de-energized.
- Only use the Energy Meter in a dry environment and keep it away from moisture.
- Install the Energy Meter in the switch cabinet only and ensure that the connection areas for the line conductors and the neutral conductor are behind a cover or have contact protection.
- Disconnect the Energy Meter from voltage sources before cleaning. The Energy Meter must be cleaned with a dry cloth only.

WARNING

Danger to life due to electric shock if external disconnect switch is missing

- Voltages are present in the live components of the Energy Meter.
- Install an external disconnect switch between the Energy Meter and the grid-connection point. The external disconnect switch must be close to the Energy Meter and easily accessible.

CAUTION

Risk of fire due to dirty or oxidized contact surfaces of live aluminum conductors

- Connecting dirty or oxidized contact surfaces with aluminum conductors reduces the capacity of the live terminals, thereby increasing the transition resistances. This can cause components to overheat and catch fire.
- The contact surfaces are to be cleaned, brushed, and treated with acidic or alkaline substances (e.g. petroleum jelly or special thermal greases).

NOTICE

Damage to or destruction of the Energy Meter if connected to ISDN

- Do not connect an ISDN cable to the network terminal of the Energy Meter. Damage to or destruction of the Energy Meter due to inappropriate use
- The Energy Meter must not be operated beyond the values specified in the technical data.

INTENDED USE

The Energy Meter is a measuring device which detects electrical measured values at the connection point and makes them available via Ethernet. This product is not an energy meter for the consumption of active power as defined in the EU Directive 2004/22/EC (MD). The Energy Meter must not be used for billing purposes. The data collected by the Energy Meter relating to the power generation or consumption of active power on the system, by the system, or by connected devices is not to be used for billing purposes. The Energy Meter is approved for use in all EU member states and Australia. Only use the Energy Meter in a dry environment and keep it away from moisture. The Energy Meter must only be connected to the subdistribution of the household on the load side behind the Energy Meter of the electric utility company. The Energy Meter must be installed in a switch cabinet. For applications bigger than 63 A, current transformers must be connected to the Energy Meter. The Energy Meter must be installed in the switch cabinet only and ensure that the connection side from all voltage sources using the installed disconnect switch.

USER GUIDE

This user guide contains safety information that must be observed at all times when working on or with the product. To prevent personal injury and property damage and to ensure long-term operation of the product, read this section carefully and observe all safety information at all times.

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**ELECTRICAL CONNECTION FOR APPLICATIONS > 63 A**

The following figure shows a connection example in TN and TT grid configurations in the case of installation at the grid-connection point. For exact connection specifications, contact your electric utility company.

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**ELECTRICAL CONNECTION FOR 3-PHASE APPLICATIONS IN DELTA IT NETWORKS**

The following figure shows a connection example in delta IT networks in the case of installation at the grid-connection point. For exact connection specifications, contact your electric utility company.

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**CONFIGURING THE CURRENT TRANSFORMER**

1. Call up the user interface of the Energy Meter.
2. Call up the menu [Device Parameters].
3. Select [Editing Parameters].
4. Set the voltage or current transformer in the parameter group [Device => to Yes].
5. Enter the desired transmission ratios for the parameters Primary current and Secondary current.
6. Select [Save all] to save the changes.

**UPDATING THE FIRMWARE**

**AUTOMATIC UPDATE (RECOMMENDED)**

1. Call up the user interface of the Energy Meter.

**MANUAL FIRMWARE UPDATE**

1. Download the update file from www.SMA-Solar.com and save it to your computer.
2. Call up the user interface of the Energy Meter.
3. Select the menu [Device Configuration].
4. Select [Settings].
5. In the context menu, select [Updating the Firmware].
6. Follow the instructions in the dialog.

**RESETTING THE ENERGY METER TO DEFAULT SETTINGS / SELECTING THE PASSWORD**

- Press the reset button with a sharp object and hold it for two to six seconds.

**RESETTING THE ENERGY METER TO DEFAULT SETTINGS**

1. The Energy Meter forwards and lift off the top-hat rail.
2. Disconnect the connection point from voltage sources and make sure it cannot be reconnected.
3. Ensure that the conductors to be disconnected from the Energy Meter are de-energized.

**DECOMMISSIONING**

1. Remove all conductors connected to the Energy Meter.
2. Remove the Energy Meter from the top-hat rail. Tilt the lower edge of the Energy Meter forwards and lift off the top-hat rail.

**DISPOSAL**

- Dispose of the Energy Meter in accordance with the locally applicable disposal regulations for electronic waste.

**OPEN SOURCE LICENSES**

The license for the software modules used can be called up on the user interface of the product. You can request the source code with modifications from the Service department.

**CONTACT**

If you experience any technical problems with our products, please contact the Service department. The following data is required in order to provide you with the necessary assistance:
- Type and serial number of the Energy Meter
- Type and serial number of the SMA-products
- Error description
- Firmware version

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