

Installation guide

24 V power supply module and 230 V transformer

for Energy Meter SonoMeter 40

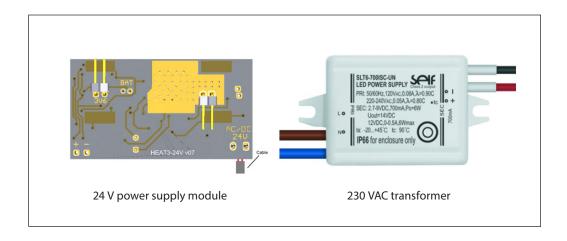


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SonoMeter 40 - Wired MudBus protocol description

1. Description

The "24 V power supply module" is meant for the energy meter powering from an external power supply (12...42 VDC or 12...36 VAC) or with the 230 VAC transformer. The 24 V power supply module is mounted inside the meter.

If the external power supply voltage is connected to the 24 V power supply module, the internal backup battery is not used. If the external power supply is turned off, the meter is powered from the internal backup battery.

2. Technical specification of "230 VAC transformer"

	DC voltage	12 V
Output	Rated current	0.7 A
	Rated power	6 W
	Voltage range	120240 VAC
Input	Frequency range	50/60 Hz
	AC current	0.044 A
Protection	Short circuit	Hiccup mode, recovers automatically after fault condition is removed
Protection	Overload	
Environment	Working temperature	-20+45 °C
Other	IP class	IP66, fully isolated plastic case

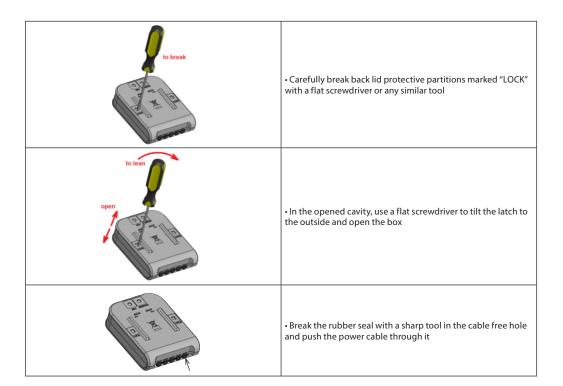
3. Safety requirements





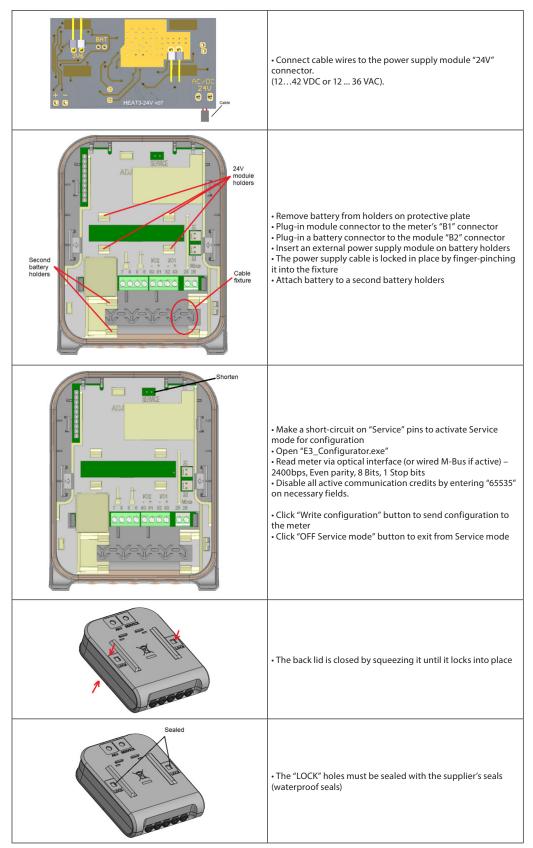
- The transformer is powered from life-dangerous 230 V voltage. Maintain only when voltage is switched off. Installation can be done only by qualified personnel.
- Module and transformer can only be used for energy meter power supply, in accordance with the user manual. The energy meter must be intact and fully complete.
- \bullet Lithium battery is prohibited to charge, short circuit or kept above the 80 $^\circ\text{C}$ temperature.

4. 24 V power supply module installation



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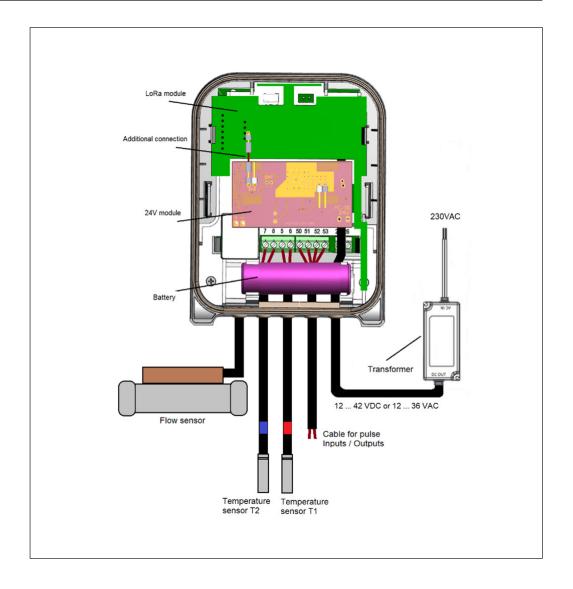
Note: If an energy meter is equipped with a LoRa communication module, an additional connection cable must be connected between the LoRa module and the 24 V power supply module jumpers for powering up the LoRa communication module.

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5. Wiring diagram





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