

Data sheet

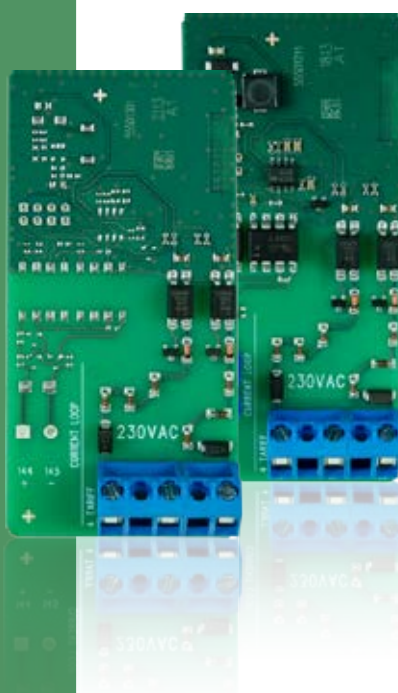
Tariff control modules for electricity meters

Tariff control module:

- Tariff functionality for up to 4 tariffs using 230 V
- Cost saving for consumer
- Averaging load for utilities

Tariff control module, current loop:

- Tariff control for up to 4 tariffs using 230 V
- Current loop for stable serial data transmission
- Suitable for communication over large distances



Application

As the name indicates, the tariff control modules control tariffs using an external voltage supply of 230 V, e.g. an external clock. The presence and absence of 230 V will enable the meter to switch between tariffs in the desired order. For a better overview of this, please see the table below.

The modules allow the changing between 4 tariffs. If more tariffs are required, they can be obtained through the internal RTC of the meter. A total of up to 8 tariffs is available.

The tariff control module, current loop is a double functioned module with tariff control as well as the communication feature of the current loop.

Current loop uses current in a closed loop for serial digital data transmission. The signalling is done through current, which means that it has a high noise-resistance making it suitable for communication in noisy environments.

Tariff control on module port

Port 1: Terminals 13 and 15	Port 2: Terminals 33 and 15	Active tariff	Active tariff inverted
0	0	T1	T4
230 VAC	0	T2	T3
0	230 VAC	T3	T2
230 VAC	230 VAC	T4	T1

Technical data – tariff control module, 4 tariffs, 230 VAC

Electrical data

Supply	Internal via electricity meter
Power consumption	< 0.2 W
Terminals	0.15 mm ² – 2 mm ²
Recommended cross-section	0.5 mm ²
Operating temperature	-40 °C - +70 °C

Mechanical data

Storage temperature	-40 °C - +85 °C
Relative humidity	< 95%, non-condensing
Weight	About 25 g
Dimensions, WxLxH	42 x 91 x 17 mm



Marking/approvals

CE-marking	Fulfils requirements mounted in the meter
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Tariffs inputs

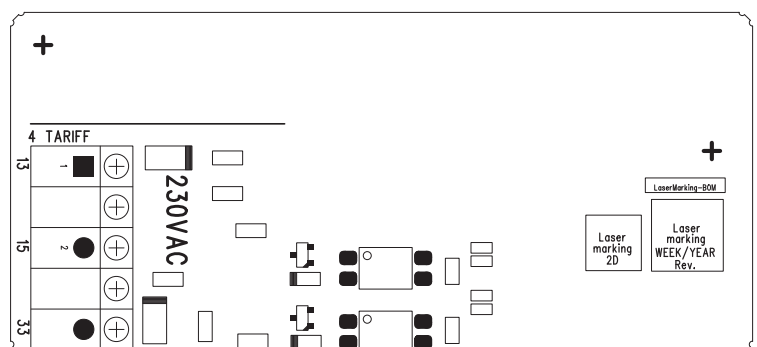
Control voltage	230 V +10%/-15%
Tariff input Trigger Level	> 80 VAC
Control current	< 2 mA per input

Inputs are galvanically isolated from the meter.

Connection diagram

Tariff input

- 13 External 230 VAC
- 15 Common
- 33 External 230 VAC



Technical data – tariff control module, 4 tariffs, 230 V, current loop

Electrical data

Supply	Internal via electricity meter
Power consumption	< 0.2 W
Terminals	0.15 mm ² – 2 mm ²
Recommended cross-section	0.5 mm ²
Operating temperature	-40 °C - +70 °C

Mechanical data

Storage temperature	-40°C - +85°C
Relative humidity	< 95%, non condensing
Weight	About 30 g
Dimensions, WxLxH	42 x 91 x 17 mm

Marking/approvals

CE-marking	Fulfils requirements mounted in electricity meter
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Data/Communication

Communication speed	9600 Baud
Protocol	IEC62056-21(1107)
Current levels	0/12 mA
Max. voltage	30 V

Tariff input

Control voltage	230 V +10%/-15%
Tariff input Trigger Level	> 80 VAC
Control current	< 2 mA per input

Inputs are galvanically isolated from the meter.



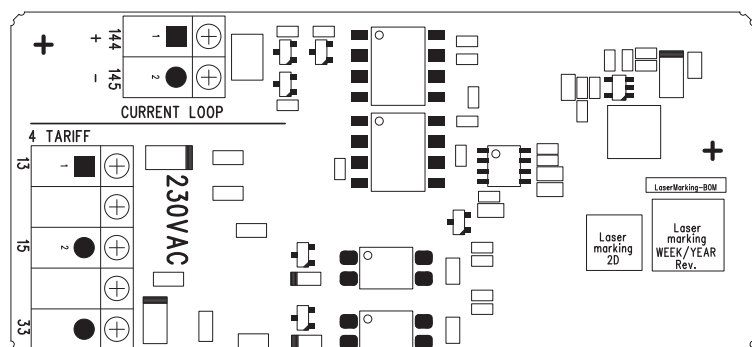
Connection diagram

Tariff input

13 External 230 VAC
 15 Common
 33 External 230 VAC

Current loop

144+ Data readout
 145- Data readout



Order specification

Description

Tariff control module, 4 tariffs, 230 V

Tariff control module, 4 tariffs, 230V, current loop

Type number

68 50 078

60 50 076

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