

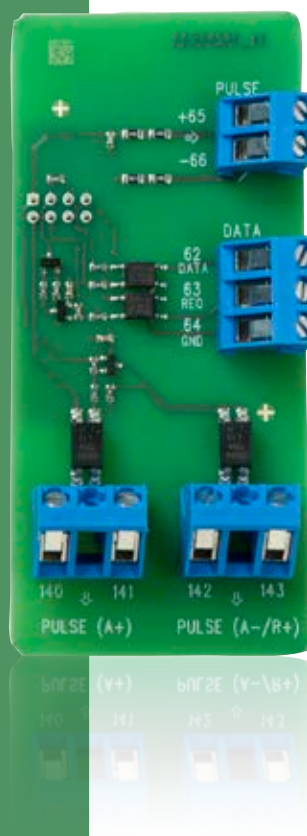
Data sheet

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Data pulse module

for electricity meters

- Reading without direct access to the meter
- Galvanically separated serial communication
- Collection of pulses from other meters
- Additional configurable pulse outputs
- Galvanically separated pulse outputs
- Easily mounted in the electricity meter
- No reverification



Application

The data pulse module is used as pulse outputs no. 2 and 3, as an input for pulses and for serial RS-232 or USB data communication (using attached cable).

The pulse outputs can be configured to retransmit A+, A+/A- or A+/R+ pulses of the electricity meter to data loggers or CTS equipment. Pulse outputs can be configured for 1 – 1000 pulses/kWh and with a pulse width of 30 or 80 ms.

The pulse input offers to collect pulses from other meters, e.g. a water meter with potential-free output. The input can be scaled using a configurable pulse division factor.

The data/communication part is used to communicate with the electricity meter without having direct access to it, e.g. via a plug mounted outside the building.

The data/pulse module is easily mounted in the 8-pole plug in the modular space of the electricity meter. The module can be mounted separately or replaced without reverificating the meter.

The pulse output is galvanically separated from the processor of the electricity meter.

The pulse input is a galvanically linked connection between the processor of the electricity meter and a potential-free pulse output e.g. on a water meter or another electricity meter.

Data/communication is galvanically separated between the processor of the meter and the equipment with serial communication, which is linked, e.g. a hand-held terminal or a PC.

Technical data

Supply	Internally via the electricity meter
Power consumption	< 0.05 W
Connection terminals	0.15 mm ² - 2 mm ²
Recommended cable 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	Approx. 27 g
Dimensions, WxLxH	42 x 92 x 17 mm

Markings/approvals

CE marking	Meets the demands of the electricity meter
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Data/communication

Serial communication	300/1200/9600 baud
Open collector, I	0.7 (max 2) mA

Technical data

Pulse output

The pulse outputs 2 and 3 of the electricity meter is configured as follows:

1 pulse/kWh	80 ms +/- 10%
1000 pulses/kWh	30 ms +/- 10%

Max voltage* 400 VAC or DC

Max power dissipation 400 mW

As standard, the pulse outputs send 1000 pulses/kWh, but can be configured for a pulse division factor (1 - 1000). In addition, the pulse width can be configured for 30 or 80 ms. See technical description.

Pulse input

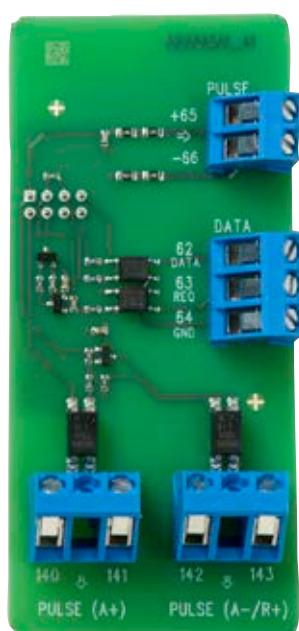
For potential-free switch, e.g. reed-switch or relay

Cable length, max	20 m
Cable capacity, max	10 nF
Leak current, switch max	0.5 uA
Frequency max	25 Hz

It is possible to scale the reading of the pulse input by a "pulse division factor". See technical description.

Installation

The module is mounted in the electricity meter on the modular space under the transparent lid.



Pulse output relay

140	External signal current AC/DC
141	External signal current AC/DC
142	External signal current AC/DC
143	External signal current AC/DC

Pulse input

65	+ Signal current for passive output
66	- Signal current from passive output

Serial communication

62	DATA
63	REQ
64	GND

Order specification

Description	Type No.
Data pulse module, dual pulse, 9600	6850-075
USB with 3-wire cable	6699-098
RS 232 converter with cable	6699-106