

Z-Wave® Slave Module for Kamstrup electricity Meters

DATA SHEET

- Enables Smart-house
- Brings energy awareness to consumer
- Open standardised protocol for interoperability
- Compatible with consumer products like displays and remote controls
- Control output for managing loads
- Status/pulse input
- Internal antenna



Application

The modern residential meter shall not only provide data for billing of consumption. The meter is also a tool for increasing energy awareness in the consumer by means of digital information technology like Z-Wave®.

Through the Z-Wave® Slave module consumption data can be sent wirelessly to a PC or a display,

thereby making the electricity consumption clear and visible. This means that the meter is not only the energy supply company's tool for billing, but also the energy efficient consumer's means of watching the consumption.

The Z-Wave® Slave module makes the electricity meter an integrated part of the smart house network,

providing relevant consumption data to an energy controller, a display or a personal computer. The consumer can now program the network to react to consumption patterns for instance by switching of lights or turning down the heat if the electricity consumption is too high.



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Technical information

Status /pulse input →

Load control output →



Electrical specifications

Supply	Supplied from the electricity meter
Power consumption	200 mW
Load control	230 V, 100 mA (Solid State)

Status /pulse input (potential-free)

Fixed limits		
When configured	Normal	Fast
Cable length, max	20 m	20 m
Cable capacity, max	100 nF	10 nF
Leak current switch max	0.5 uA	0.5 uA
Frequency, max	0.5 Hz	16.6 Hz
Pulse duration, min.	1 sec.	10 ms
Pulse duration, max	1 sec.	90 ms
Pulses in before display reading changes	1	8

Mechanical specifications

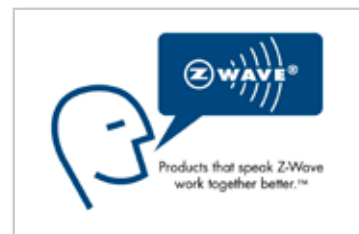
Dimension (WxHxL mm)	42x15x92
Mounting	In the module area of the electricity meter
Density	IP51 installed in the electricity meter
Storage temperature	-15°C +70°C
Operational temperature	-15°C +70°C
Relative humidity	<95% non-condensing

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Z-Wave® specifications

Frequency	868.40 MHz
Modulation	FSK
Sensitivity	-102/-98dBm
Data rate	9.6kbps/40kbps
Output power	-2.0 dBm
Mode	Enhanced slave
Command classes	AEC, Basic, Switch Binary, Switch All, Meter Pulse, Sensor Binary, Meter TBL Config, Meter TBL Monitor, Multi Channel, Manufacturer Specific, Version
Certificate no.	ZC08-09080017



AEC Data supported

	Electricity meter values	
OBIS	Import	Export
1.8.0	Active Energy A+	Active Energy A-
3.8.0	Reactive Energy R+	Reactive Energy R-
1.7.0	Actual Active Power P+	Actual Active Power P-
3.7.0	Actual Reactive Power Q+	Actual Reactive Power Q-
1.6.0	Maximum Active Power P+max	Maximum Active Power P-max
3.6.0	Maximum Reactive Power Q+max	Maximum Reactive Power Q-max
1.2.0	Accumulated Maximum Active Power P+acc	Accumulated Maximum Active Power P-acc
3.2.0	Accumulated Maximum Reactive Power Q+acc	Accumulated Maximum Reactive Power Q-acc
32.25	Voltage Phase 1	Voltage Phase 1
52.25	Voltage Phase 2	Voltage Phase 2
72.25	Voltage Phase 3	Voltage Phase 3
31.25	Current Phase 1	Current Phase 1
51.25	Current Phase 2	Current Phase 2
71.25	Current Phase 3	Current Phase 3
0.128.1	Pulse Input	Pulse Input
-	Current Transformer Ratio	Current Transformer Ratio
-	Power Factor	Power Factor

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Ordering

Z-Wave® Slave Module, Consumer Plug-in

6840001

The module is equipped with

- Integrated antenna



Z-Wave® Slave Module

6850061

The module is equipped with

- Integrated antenna
- Load control output
- Status/pulse input
- Connector for external antenna



Z-Wave® Slave Module for Kamstrup DIN rail meters

6850063

The module is equipped with

- Integrated antenna
- Load control output
- Status/pulse input
- Connector for external antenna
- Power supply

