kamstrup

Data sheet

IP101i module

- TCP/IP module for electricity meters
- Collection of meter values, e.g. counts, load profiles and voltage quality via Ethernet/ Internet
- Configuration for static or dynamic IP address
- Status LEDs for Ethernet and service identification
- Relay output for load control (230 VAC, max 100 mA)
- Pulse input
- NAT penetration and white list firewall



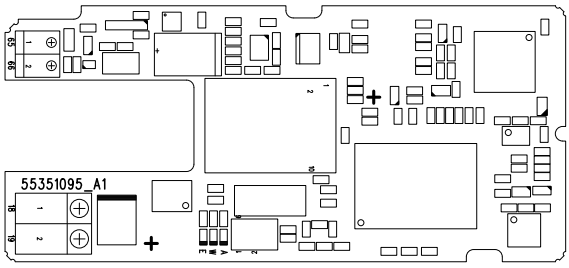
Application

The IP101i module is installed in Kamstrup's electricity meters and can be used in connection with counts, load profiles and events such as voltage cut-offs. This data are transmitted via TCP/IP communication to the reading system of the electricity utility. Kamstrup A/S recommends using closed networks, and the IP101 module is thus capable of operating behind a NAT/firewall.

Connection diagram

Terminal 65-66 (input)
Pulse input

Terminal 18-19 (output)
Relay output for load control



Technical data

Communication

Protocol	IPV4
Ethernet	10 Mbit

Electrical data

Supply	Via the module connector
Power consumption	< 450 mW
Load control	230 VAC, 100 mA (Solid state)

Status / pulse input (isolated switch)

Limit values	
Cable length, max	20 m
Cable capacity, max	10 nF
Leak current switch max	0.5 uA
Frequency, max	16.6 Hz
Pulse duration, min.	10 ms
Pulse duration, max	90 ms
Pulses in before display reading changes	8

Mechanical data

Dimension (wxhxd mm)	41x19x41
Temperature, storage	-40 °C - +70 °C
Temperature, operation	-40 °C - +60 °C
Relative humidity	< 95 %, non-condensing
Mounting	In the module area of the electricity meter
Density	Dependent on meter (IP51/IP54)

Marking/approvals

CE marking	
EN61600-6	EMC
EN62052-11	Approval of electricity meter

Compatibility

Protocol/meters	162/282/382 J	162/282/382 KLM	OMNIPOWER	351 BC
KMP	-	✓	-	✓
DLMS/COSEM**	-	✓	✓*	✓

* From rev. E5 (2013.09.23)

** Kamstrup recommends KMP

Ordering

Description	Type no.
IP101i	6850040.21

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