

IP101i Module

TCP/IP module for electricity meters or PLC Concentrators

Collection of metering values, e.g. counts, load profiles and voltage quality via Ethernet/Internet

Transparent or data logger functionality

Configuration to static and dynamic IP address

Status LED's for Ethernet and service identification

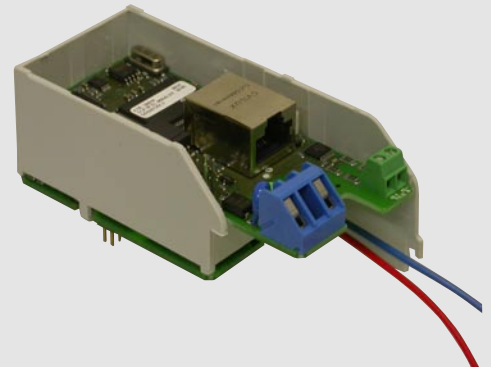
Central upload of new features, e.g. new tariff switch times

Integral real time clock (RTC) with 10 days' backup

Load profile (5/15/30/60 minutes), daily/weekly/monthly logger and event logger

Tariff switch function

**Relay output for load control
(230 VAC, max. 100 mA)**



Application

The IP101i module is inserted into Kamstrup's electricity meters or PLC Concentrators and collects counts, load profiles and events e.g. voltage cutoff. This data is transmitted via TCP/IP communication to the reading system of the utility. Kamstrup A/S recommends using closed networks, and the IP101i module is designed to operate behind a NAT/firewall.

The IP101i module makes central upload of new features possible, e.g. new tariff switch times.

The module has an integral real time clock (RTC), status/pulse input, load profile, daily/weekly/monthly logger, event logger and relay output for load control.

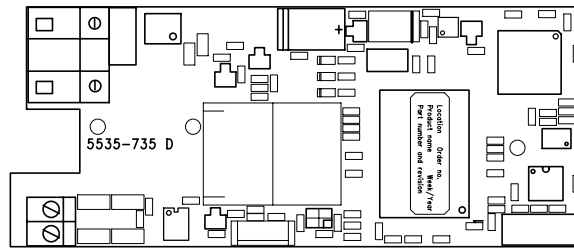


Kamstrup A/S
Industrivej 28, Stilling
DK-8660 Skanderborg
TEL: +45 89 93 10 00
FAX: +45 89 93 10 01
info@kamstrup.com
www.kamstrup.com

Connection diagram

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

Terminal 65-66 (input)
Status/pulse input



Technical data

Communication

Protocol	TCP/IP, UDP
Ethernet	10Mbit

Electrical data

Supply	Supplied from the electricity meter via cables
Power consumption	< 1.5 W
RTC accuracy	20 ppm
RTC backup	Min. 10 days
Load profile	5/15/30/60 minutes
Logging depth	3/11/22/45 days
Daily logger, depth	45 days
Weekly logger, depth	45 weeks
Monthly logger, depth	45 months
Event logger, depth	64 events (shortest recordable cutoff is 1 min.)
Tariff switch	2 tariff switches + 30 optional days
Load control	230 VAC, 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 contact, max.	0.5 uA	0.5 uA
Frequency, max.	0.5 Hz	16.6 Hz
Pulse duration, min.	1 sek.	10 ms
Pulse duration, max.	1 sek.	90 ms
Pulses in before display reading changes	1	8

Mechanical data

Dimension (wxhxd)	41x93x41
Temperature, storage	-40°C +70°C
Temperature, operation	-40°C +60°C
Relative humidity	< 95%, not condensing
Installation	To be inserted into the module area of the electricity meter
Density	IP51 when inserted into an electricity meter

Marking/approvals

CE mark	
EN61600-6	EMS
EN62052-11	Electricity meter approval

Ordering

IP101i	6850-040.IK
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