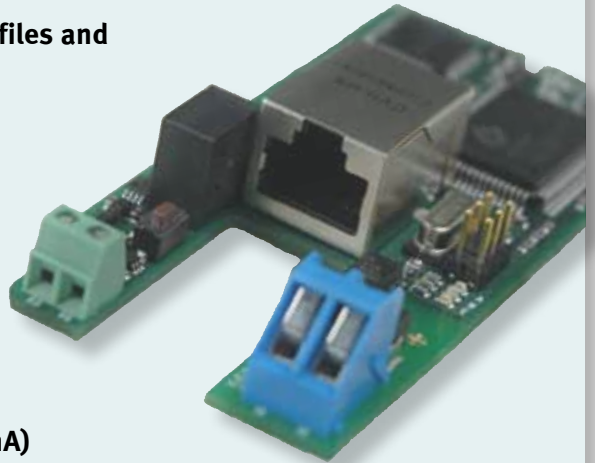


IP101i Module

DATA SHEET

- TCP/IP module for electricity meters
- Collection of metering values, e.g. counts, load profiles and voltage quality via Ethernet/Internet
- 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
- Tariff switch function
- Relay output for load control (230 VAC, max. 100 mA)
- Status/pulse input
- NAT penetrating and white list firewall



Application

The IP101i module is inserted into Kamstrup's electricity meters and reads 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.

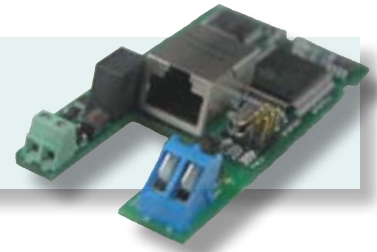
The IP101i module makes central upload of new features possible, e.g. new tariff switch times.

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.

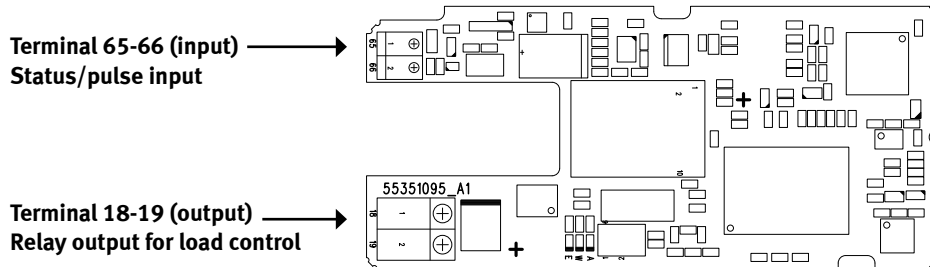


IP101i Module

DATA SHEET



Connection diagram



Technical data

Communication

Protocol	TCP/IP, UDP
Ethernet	10Mbit

Electrical data

Supply	Supplied via the module plug
Power consumption	< 450 mW
RTC accuracy	20 ppm
RTC backup	Min. 10 days
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 sec.	10 ms
Pulse duration, max.	1 sec.	90 ms
Pulses in before display reading changes	1	8

Mechanical data

Dimension (wxhxd)	41x19x41
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

6850040.21