

# PLC/Router i/o module

**Communication directly on the electricity distribution network**

**Remote reading of Kamstrup electricity meters 162/382/351**

**Solid communication using FSK modulation**

**Easily integrated into the module area of the meter (Plug and Play)**

**Supplied from the electricity meter**

**10 days' back up of the real time clock**



## Application

By mounting a Kamstrup PLC module into the electricity meter it is possible to read the meter remotely without disturbing the customer.

The PLC module is mounted in the module area in the electricity meter and is ready for use after 10 seconds.

One of the strengths of the PLC technology is the possibility of building up a communication network of your own without using external antennas, subscrip-

tions, communication costs and other factors which characterises a network.

The PLC network opens up the possibility of central upload of new features such as new tariff switch times.

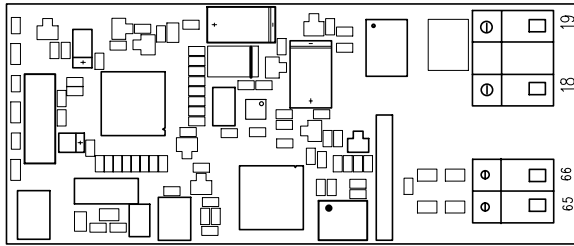
The module has an integral real time clock (RTC), status/pulse input, load profile, daily/weekly/monthly loggers, event logger, relay output for load control.



## Kamstrup

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## Connection Diagram



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

Terminal 65-66 (input)  
Status/pulse input

## Technical Data

### Electrical data

Supply:	Supplied from the electricity meter via cables
Frequency band:	A-band
FSK baud rate:	2400 baud
Power consumption, idle:	< 500 mW
Power consumption, transmission:	< 4W
RTC accuracy:	20 ppm
RTC back-up:	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 (lowest recordable cut off is 2 minutes)
Tariff switch:	2 tariff switches + 30 optional days
Load control:	230 VAC, 100 mA
Status/pulse input:	

### Mechanical data

Dimension (wxhxd mm):	41x93x41 supplied from the electricity meter via cables
Temperature, storage:	±40°C +70°C
Temperature, operation:	±40°C +60°C
Relative humidity:	< 95%, non-condensing
Mounting:	To be mounted in the module area of the electricity meter
Protection class:	P51 mounted in the electricity meter

### Marking/approvals

CE-marking	
EN61600-6	EMC
EN62052-11	Electricity meter approval
EN50065-1	PLC

Limit values		
In connection with configuration	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
Number of pulses in before change in display reading	1	8

## Order Specifications

PLC/Router i/o module: 6850 039.PO