kamstrup

Data sheet

# HAN module P1

## For Kamstrup OMNIPOWER® meters

Makes it possible for the consumer to see the current consumption or the export of electricity from, for example, solar cells or wind turbines, etc. To read this data, a display must be purchased.

## Contents

## Application

When connected to a display, the module can show the consumer the current consumption based on actual data. Thus, the consumer becomes more aware of their consumption and can take steps to reduce it.

The module sends information about the most important parameters to a display on which the consumer can see the current consumption of electricity.

The consumer who, for example, has installed solar cells can also see how much electricity is exported to the grid.

## HAN specifications

For more info, see the OMNIPOWER® HAN Interface specification at kamstrup.com.

## Push data list

The push data list must be activated from the utility.
The list of data is pushed out every 10 seconds.

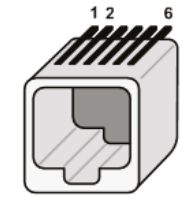
| Class | Logical name | Object name | Unit |
|---|---|---|---|
| 8 | 0-0.1.0.0 | Real-time clock | - |
| 3 | 1-0:1.8.0 | Active energy A14 | Format 8.3, xxxxxxxx.xxx kWh |
| 3 | 1-0:2.8.0 | Active energy A23 | Format 8.3, xxxxxxxx.xxx kWh |
| 3 | 1-0:3.8.0 | Reactive Energy, R+ | Format 8.3, xxxxxxxx.xxx kVArh |
| 3 | 1-0:4.8.0 | Reactive Energy, R- | Format 8.3, xxxxxxxx.xxx kVArh |
| 3 | 1-0:1.7.0 | Active Power, P+ | Format 4.3, xxxx.xxx kW |
| 3 | 1-0:2.7.0 | Active Power, P- | Format 4.3, xxxx.xxx kW |
| 3 | 1-0:3.7.0 | Reactive Power, Q+ | Format 4.3, xxxx.xxx kVAr |
| 3 | 1-0:4.7.0 | Reactive Power, Q- | Format 4.3, xxxx.xxx kVAr |
| 3 | 1-0:21.7.0 | Active Power, P+, L1 | Format 4.3, xxxx.xxx kW |
| 3 | 1-0:41.7.0 | Active Power, P+, L2 | Format 4.3, xxxx.xxx kW |
| 3 | 1-0:61.7.0 | Active Power, P+, L3 | Format 4.3, xxxx.xxx kW |
| 3 | 1-0:22.7.0 | Active Power, P-, L1 | Format 4.3, xxxx.xxx kW |
| 3 | 1-0:42.7.0 | Active Power, P-, L2 | Format 4.3, xxxx.xxx kW |
| 3 | 1-0:62.7.0 | Active Power, P-, L3 | Format 4.3, xxxx.xxx kW |
| 3 | 1-0:23.7.0 | Reactive Power, Q+, L1 | Format 4.3, xxxx.xxx kVAr |
| 3 | 1-0:43.7.0 | Reactive Power, Q+, L2 | Format 4.3, xxxx.xxx kVAr |
| 3 | 1-0:63.7.0 | Reactive Power, Q+, L3 | Format 4.3, xxxx.xxx kVAr |
| 3 | 1-0:24.7.0 | Reactive Power, Q-, L1 | Format 4.3, xxxx.xxx kVAr |
| 3 | 1-0:44.7.0 | Reactive Power, Q-, L2 | Format 4.3, xxxx.xxx kVAr |
| 3 | 1-0:64.7.0 | Reactive Power, Q-, L3 | Format 4.3, xxxx.xxx kVAr |
| 3 | 1-0:32.7.0 | Voltage, L1 | Format 3.1, xxx.x V |
| 3 | 1-0:52.7.0 | Voltage, L2 | Format 3.1, xxx.x V |
| 3 | 1-0:72.7.0 | Voltage, L3 | Format 3.1, xxx.x V |
| 3 | 1-0:31.7.0 | Current, L1 | Format 3.1, xxx.x A |
| 3 | 1-0:51.7.0 | Current, L2 | Format 3.1, xxx.x A |
| 3 | 1-0:71.7.0 | Current, L3 | Format 3.1, xxx.x A |

## Technical data

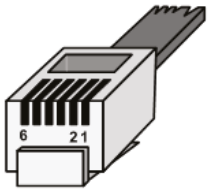
| | |
|---|---|
| Requires OMNIPOWER® firmware | • 50981173 rev. AK1<br>• 50981165 rev. AK1<br>• 50981251 rev. AA1 |
| Standards | Complies with the Swedish Branche recommendation from 3/12-2019 |
| Materials | Glass-reinforced polycarbonate |
| Weight | 50 g |
| Sealing | After the mounting, the module can be sealed.<br>Mounted without breaking the seal of the utility. |
| Protection class | IP20 |
| Connection | RJ12 |
| Cable length | Max 50 m |
| Operating temperature | -40 °C to 70 °C |
| Relative humidity | 20 % RH to 70 % RH |

The external unit/display is connected via an RJ12 connector and needs an external power supply or splitter as shown on the drawing on the next page.

| PIN# | Signal name | Description | Remark |
|---|---|---|---|
| 1 | +5V | +5V power supply | From external power supply |
| 2 | Data Request | Data request | Input |
| 3 | Data GND | Data ground | |
| 4 | n.c. | Not connected | |
| 5 | Data | Data line | Output. Open collector |
| 6 | Power GND | Power ground | Power supply line |

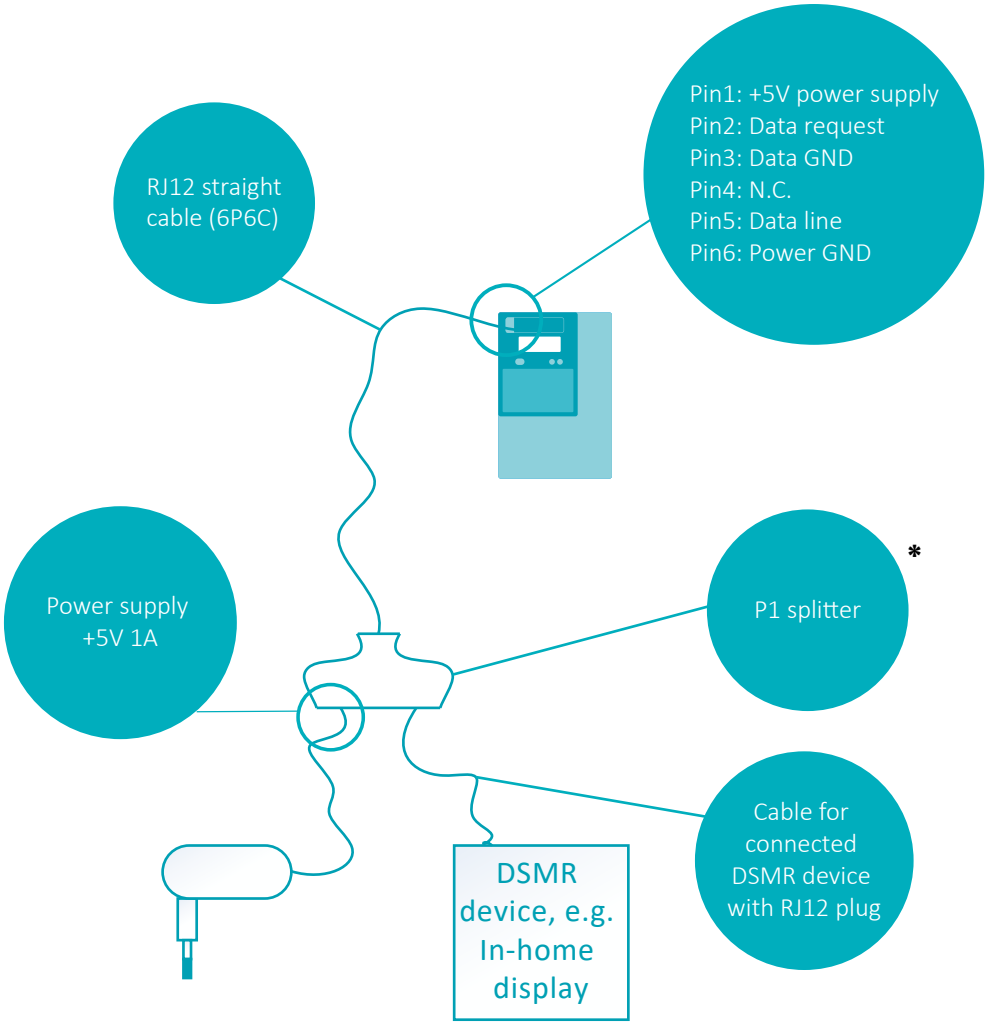


Metering System
RJ12 female socket



OSM
RJ12 male connector

## Example of external splitter and power supply




* Example of splitter

**P1 splitter**

https://www.homewizard.com/shop/active-p1-splitter/

**USB C adapter set for splitter**

https://www.homewizard.com/shop/usb-c-adapter-set-for-splitter/

## FAQ

No data in the display/equipment:

1. Is the push list activated from the utility?
2. Does the display/equipment have an external power supply as described?

If there is still no data in the display/equipment, it is possible to buy a cable and install a terminal program to check if the push list is activated.

There are several places on the INTERNET where they can be bought.
See examples below.

**Terminal program**

www.docklight.de

www.helpdeskgeek.com

**Cable**

www.aliexpress.com.

## Ordering

| | |
|---|---|
| HAN module | 6840005 |

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