

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.



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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](https://www.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.

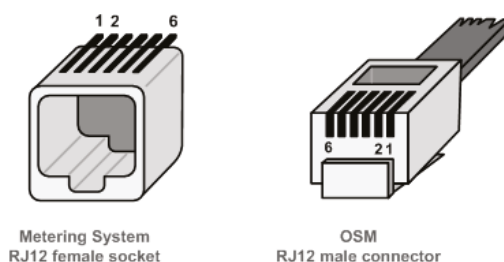
Class	Logical name	Object name	Unit
8	0-0:1.0.0	Real-time clock	-
3	1-0:1.8.0	Active energy A14	Format 8.3, xxxxxxxx.xxx kWh
3	1-0:2.8.0	Active energy A23	Format 8.3, xxxxxxxx.xxx kWh
3	1-0:3.8.0	Reactive Energy, R+	Format 8.3, xxxxxxxx.xxx kVArh
3	1-0:4.8.0	Reactive Energy, R-	Format 8.3, xxxxxxxx.xxx 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

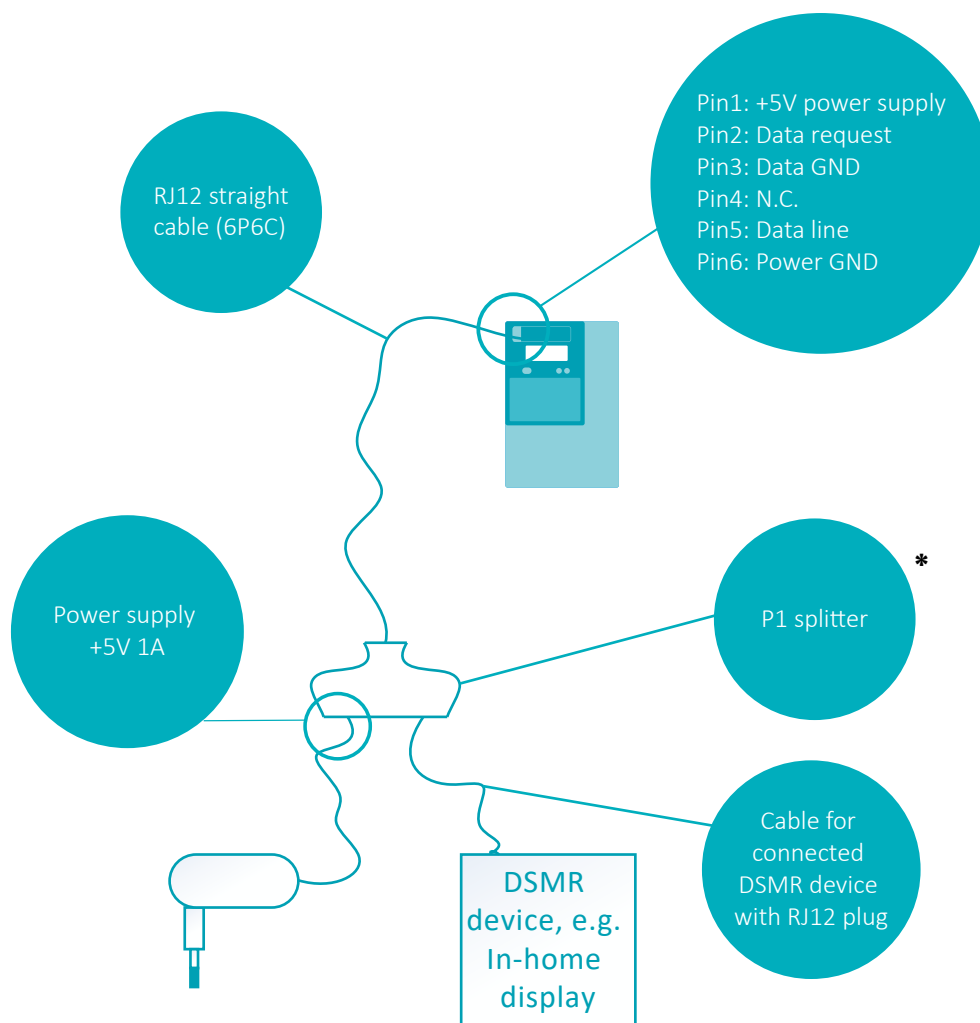
Requires OMNIPower® firmware	• 50981173 rev. AK1 • 50981165 rev. AK1 • 50981251 rev. AA1
Standards	Complies with the Swedish Branche recommendation from 3/12-2019
Materials	Glass-reinforced polycarbonate
Weight	50 g
Sealing	After the mounting, the module can be sealed. Mounted without breaking the seal 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



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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