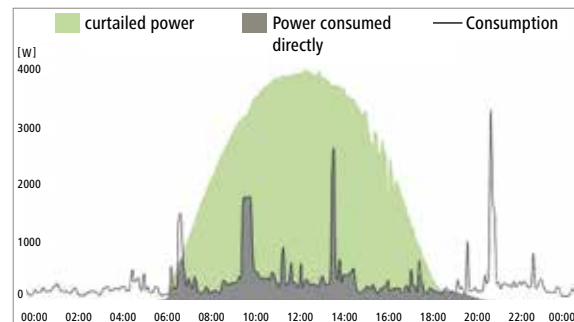


INCREASED SELF-SUFFICIENCY WITH THE FRONIUS OHMPILOT

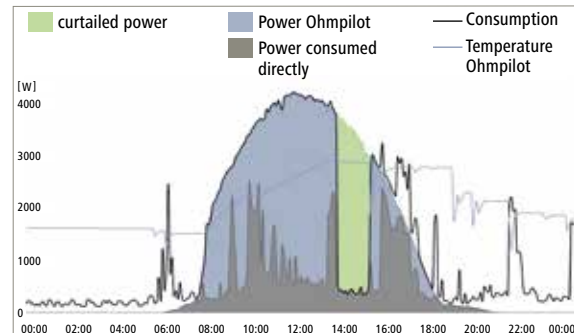
A sunny day: ☀️

Before the Fronius Ohmpilot is installed



The PV system supplies power to the electrical loads in the property while the surplus energy has to be curtailed due to the zero feed-in limitation.

After the Fronius Ohmpilot is installed



The surplus power is not curtailed. Instead, it is used by the water heating system to increase the water temperature to a pre-set temperature.

Self-consumption can be increased to over **60%**, even on a sunny day.



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/ Perfect Welding / Solar Energy / Perfect Charging



LET THE SUNSHINE
INTO YOUR BATHROOM.

Use solar energy even more efficiently with the Fronius Ohmpilot.



HEAT WATER THE INTELLIGENT WAY

Use your solar energy even more efficiently by heating water with the Fronius Ohmpilot. Surplus solar energy is converted into heat, increasing self-sufficiency in the process.

As soon as your photovoltaic system is producing more solar energy than you are using in your home, the Fronius Ohmpilot will transfer the available surplus to a heating element, towel rail or any other ohmic consumer of your choice. When your water is heated with solar energy, your heating no longer needs to be started up during the sunny months. This extends the service life of your heating system.

Thanks to the continuously adjustable regulation from 0 to 9 kW, up to **100 %** of the solar power generated by the PV system can be used in the property.



YOUR ADVANTAGES AT A GLANCE

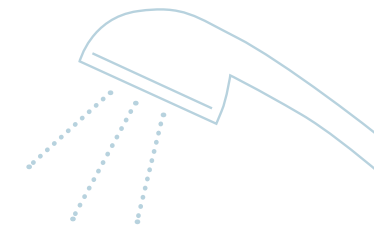
- / Lower your overall energy costs
- / Increase self-sufficiency
- / Reduce CO₂ emissions
- / Store surplus PV power without using a battery



The majority of a household's hot water consumption (Ø) can be covered by solar power
10+ months*

*depends on the climatic conditions in your country

HOT WATER AS A STORAGE MEDIUM



- / An average four-person household with a 300-litre hot water boiler
- / 5 kWp PV system with a Fronius Ohmpilot

The surplus energy obtained in an average day can be used for:

	PV SURPLUS	WATER HEATING
Overcast ☁	5 kWh	150 litres to 40°C
Slightly cloudy ☁☀	10 kWh	170 litres to 60°C
Sunny ☀	17 kWh	300 litres to 60°C

On average, **50 litres** of hot water are required for a **single** shower.





FRONIUS OHMPILOT

Optimising self-consumption through the intelligent, continuously adjustable regulation of heat sources



The Fronius Ohmpilot is a consumption regulator designed to use excess solar power to heat water. Thanks to the continuously adjustable regulation from 0 to 9 kW, surplus PV current can be put to highly efficient use and fed to the consumers in the household.

The Fronius Ohmpilot is primarily used to intelligently control heating elements for providing hot water in boilers and buffer storage tanks, but can also be used for infrared heating or towel radiators. Solar power can thus provide a family home with average levels of water consumption with most of their hot water from April to October. The result is maximum self-consumption, a reduction in the household's CO₂ emissions and less wear on the building's main heating system during the summer months.

FRONIUS OHMPILOT TECHNICAL DATA

INPUT DATA	OHMPILOT
Frequency	50 Hz
Max. input current (I _{ac max}) ¹⁾	16 A / 3*16 A
Input voltage ¹⁾	230 V / 3*230 V
OUTPUT DATA	OHMPILOT
Max. output power ¹⁾	3 kW / 9 kW (each continuously adjustable)
Frequency	50 Hz
AC output current (I _{ac nom}) ¹⁾	13 A / 3*13 A
Output voltage ¹⁾	230 V / 3*230 V
THDi	< 3 %
GENERAL DATA	OHMPILOT
Type of power regulation	Pulse width modulation
Dimensions (height x width x depth)	350 x 280 x 110 mm
Weight	3.9 kg
Protection class	IP54
Installation	Wall mounting
Ambient temperature range	0 - 40 °C
Permitted humidity	0 - 99 %, non-condensing
Certificates and compliance with standards	CE, EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 300 328

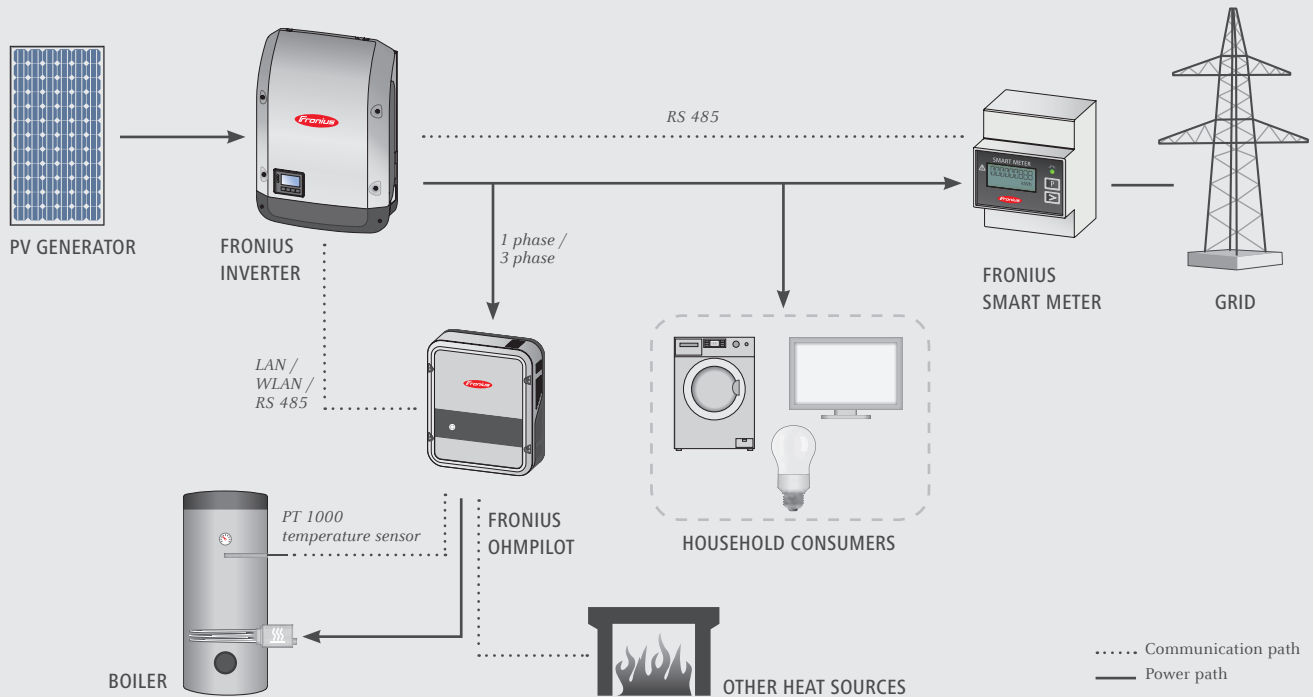
¹⁾ single phase / three-phase with neutral conductor

THE ADVANTAGES AT A GLANCE

- / Continuously adjustable regulation from 0 to 9 kW
- / Easy installation
- / Minimum temperature setting
- / Compatible with dynamic power limitation from 0-100%

- / Coordination with other heat sources, e.g. gas water heaters
- / Combination with heat pumps
- / Legionella prevention system
- / Proven compliance with EMV directives

CONFIGURATION DIAGRAM



Installing the Fronius Ohmpilot could not be easier thanks to straightforward commissioning via the dedicated website as well as a simple communication connection via WLAN. The Fronius Ohmpilot also protects the grid by cleanly and reliably activating the consumers, leaving you as the installer fully equipped for the demands of today and tomorrow. When using 3-phase heating rods, ensure that the neutral conductor is connected to the input voltage and the heating rod.

The Fronius Ohmpilot is compatible with all Fronius inverters. A Fronius Datamanager 2.0 and a Fronius Smart Meter are required to use the device. The Fronius Datamanager is integrated as standard in Fronius Symo, Fronius Symo Hybrid, Fronius Primo, Fronius Galvo and Fronius Eco inverters. The Fronius Datamanager and the Fronius Smart Meter can be retrofitted in existing inverters at any time.

/ Perfect Welding / Solar Energy / Perfect Charging

THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 4,760 employees worldwide and 1,253 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

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