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FRONIUS Ohmpilot

Self-consumption optimization through intelligent, stepless
Control of heat sources



The Fronius Ohmpilot is a consumption controller that uses excess PV power to heat water. Thanks to the stepless control from 0 to 9 kW, the excess PV power can be used efficiently and passed on to a heat source in the household.

The Fronius Ohmpilot is primarily used to intelligently control heating elements for hot water preparation in boilers and storage tanks. Other areas of application are, for example, infrared heating or a towel dryer.

In a single-family house with average hot water consumption, most of the household demand in Central Europe can typically be covered with solar power from March to October. The result: Maximum self-consumption, reduction of household CO₂ emissions and protection of your own heating system in the summer months.

technical data FRONIUS OHMPILOT

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 frequency ¹⁾	stepless 3 kW / stepless 9 kW
	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 control	Pulsweitenmodulation
Dimensions (height x width x depth)	350 x 280 x 110 mm
Weight	3,9 kg
protection class	IP54
Montage	wall mounting
ambient temperature range	0 - 40 °C
Permissible 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

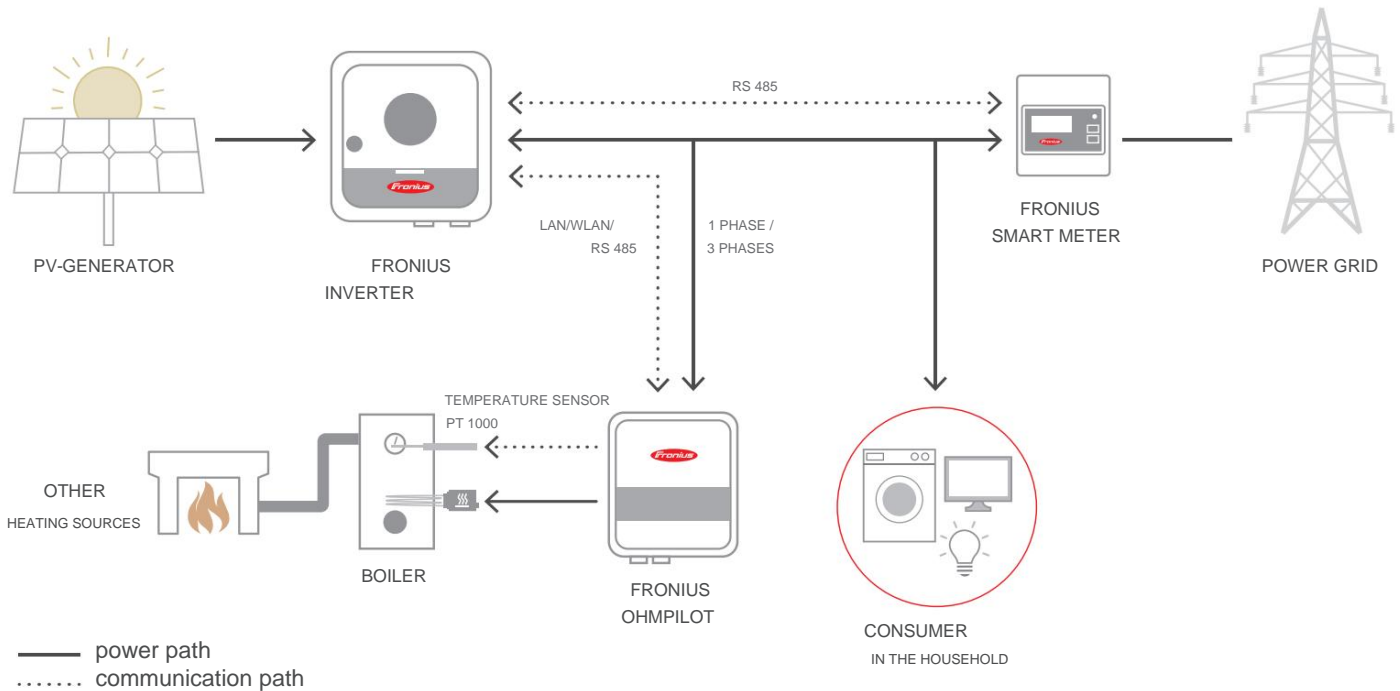
1) 1-phase / 3-phase with neutral conductor

THE ADVANTAGES AT A GLANCE

/ Infinitely variable control from 0 to 9 kW
/ Increase in self-consumption rate up to 100%
/ Extension of the life of the primary heating source
/ Hot water supply with PV over 8 months im
year mostly possible

/ Easiest installation
/ Compatible with other heating sources such as. heat pumps
/ Protection against legionella
/ Dynamic power limitation enabled
Nulleinspeisung

CONFIGURATION SCHEME



During installation, the Fronius Ohmpilot scores with easy commissioning via its own website and with a simple communication connection via WLAN. At the same time, the Fronius Ohmpilot protects the power grid through the clean and interference-free control of the loads, so you as an installer are equipped for the requirements of today and tomorrow. When using 3-phase heating elements, make sure that the neutral conductor is connected to the input voltage and to the heating element. With an 18 kW immersion heater*, hot water can be heated with excess PV, even in the commercial sector.

The Fronius Ohmpilot is compatible with all Fronius inverters. A Fronius Datamanager 2.0 and a Fronius Smart Meter are required for use. The Fronius Datamanager is integrated as standard in the Fronius Symo, Fronius Symo Hybrid, Fronius Primo, Fronius Galvo and Fronius Eco inverters. Both the Fronius Datamanager and the Fronius Smart Meter can be retrofitted at any time in inverters that have already been installed. A PT1000 temperature sensor is also recommended. Only with the temperature sensor can the consumption behavior be additionally optimized by setting the minimum or target temperatures of the hot water and the temperature can be displayed in the Solar.web.

*ASKOMA heating rod "ASKOHEAT 18 kW

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THREE BUSINESS UNITS, ONE PASSION: TECHNOLOGY THAT SETS STANDARDS.

What began as a one-man operation in 1945 is now setting technological standards in the areas of welding technology, photovoltaics and battery charging. Today we have around 4,760 employees worldwide, and 1,253 patents granted for product developments make the innovative spirit in the company clear. For us, sustainable development means implementing environmentally relevant and social aspects on an equal footing with economic factors. Our claim has never changed: to be the innovation leader.

You can find more information about all Fronius products and our global sales partners and representatives at www.fronius.com

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