

AUTARIC  
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# AUTARIC

## KNX SMART GRID INTERFACE

### Connection of PV systems and smart meters

The AUTARIC KNX Smart Grid Interface is a smart solution to intelligently link heat pumps with PV systems, smart meters and the KNX.

For this purpose, the device evaluates information about the energy balance from the PV system, smart meter and KNX (if available) and uses this data to control the operating modes of heat pumps via the standardized „SG Ready“ interface.



SIMPLE **ENERGY MANAGEMENT**  
FOR **YOUR HOME**

AUTARIC is a brand of Insta GmbH. Our aim is to support homeowners and companies on their way to an efficient and therefore more sustainable use of resources in decentralized energy generation. For AUTARIC users, this means a long-term reduction in energy costs.

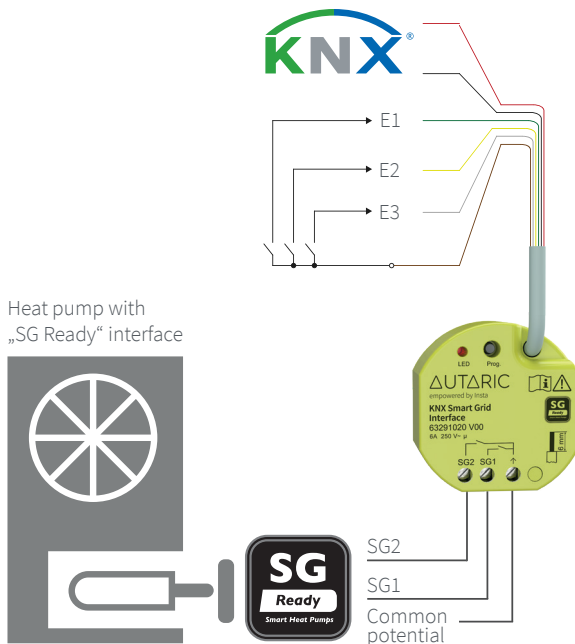
[autaric.insta.de](http://autaric.insta.de)

## Heat pump control via „SG Ready“ interface

+ Smart solution to link heat pumps intelligently with PV systems, smart meters and KNX.

+ Optimization of own energy consumption.


+ Controls electrical loads such as heat pumps regardless of manufacturer. Currently over 3,500 heat pump models from more than 145 manufacturers.




Operating mode	SG1	SG2	KNX	
1	ON	OFF	1	Switch off the heat pump (max. 2 hours)
2	OFF	OFF	2	Normal operation
3	OFF	ON	3	Start-up recommendation for amplified operation (internal controller decides)
4	ON	ON	4	Start-up command Variant 1: Switching on the heat pump Variant 2: Higher setpoint temperature or use of heating element

 **Input E1:**  
**Info from inverter**  
(photovoltaic)

Inverter reports  
PV surplus

 **Input E2:**  
**Info from smart meter**  
Network serviceability –  
§ 14a Energiewirtschafts-  
gesetz (EnWG)

Smart Meter provides information  
regarding grid serviceability from  
the grid operator

 **Input E3 (optional):**  
**Manual intervention by user**

Customer can „throttle“ WP or  
give „full power“ command