

#### Tender specification:

The “power to heat” module allows using surplus energy of a photovoltaic installation or other regenerative electricity sources which is not needed for the supply of the household appliances for heating a potable water or buffer storage cylinder. A second immersion heater can be connected to the power electronics for priority loading of the potable water section in a buffer storage cylinder. If the required temperature is reached in the upper storage cylinder section, the power electronics automatically switches to the second immersion heater. The module can be used in combination with classic (e.g. gas/oil) or regenerative (e.g. heat pump/solid fuel) heat generators in existing and new buildings.

#### Advantage:

- optimised use of self-generated photovoltaic electricity
- high efficiency
- priority loading of the potable water section (in combination with the extension set item no. 1371091)
- electrical reheating in case of failure of the primary heat generator
- frost protection function
- simple integration into existing and new buildings

**Item no.:** 1371090

Consisting of:

#### Active power detection

Power supply 100 – 240 V ~ (50 – 60 Hz)  
 Measuring range 0 – 13.5 kW  
 Data interface S-bus  
 Installation On top hat rail  
 (in the house connection box)  
 Display 2 x control LED  
 Dimensions 71 x 90 x 58 mm

#### Power electronics

Sensor inputs 2 (for PT 1000 temperature sensors)  
 Electrical connection single phase 230 V ~ (50 – 60 Hz)  
 Power range 0 – 3 kW (modulating)  
 Number of load outputs 2 (for immersion heater up to  $P_{max} = 3kW$ )

Adjustable temperature range 35 – 90 °C  
 Data interface 2 x S-bus  
 Material Metal casing  
 Operation Membrane keyboard with three keys  
 Display LCD display  
 1 x two-colour control LED  
 Dimensions 226 x 82 x 303 mm

#### Electrical immersion heater

Power 3 kW  
 Connection G 1 ½  
 Temperature limiter 98 °C - 6 K  
 Material Stainless steel 2.4845 (also suitable for potable water)  
 Unheated section 180 mm

**Temperature sensor** PT 1000

#### Accessories:

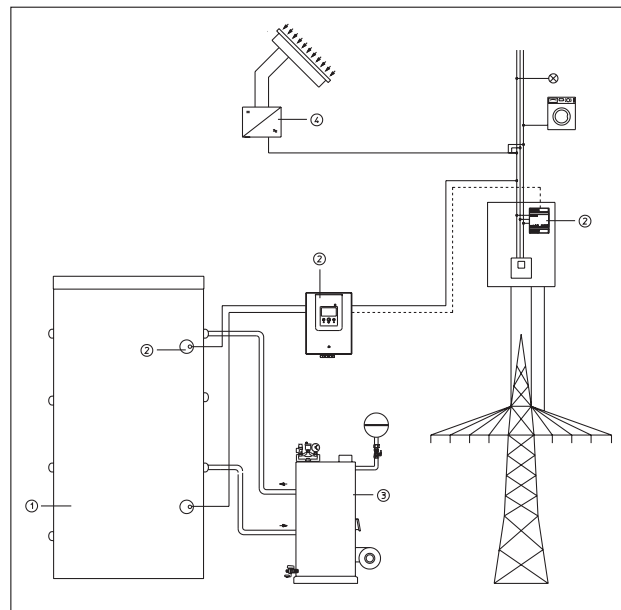
The “power to heat” module can be extended by a maximum of one immersion heater for zone loading of a buffer storage cylinder. Extension set consisting of immersion heater 3 kW and temperature sensor PT 1000

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**Further information and charts are detailed in the technical information sheets of the individual components.**



“Power to heat” module



System sketch

- 1 Buffer or potable water storage cylinder
- 2 “Power to heat” module
- 3 Heat generator (e.g. oil/gas/solid fuels)
- 4 Photovoltaic installation with inverter

Subject to technical modifications without notice.

Product range 10  
 ti 366-EN/10/MW  
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