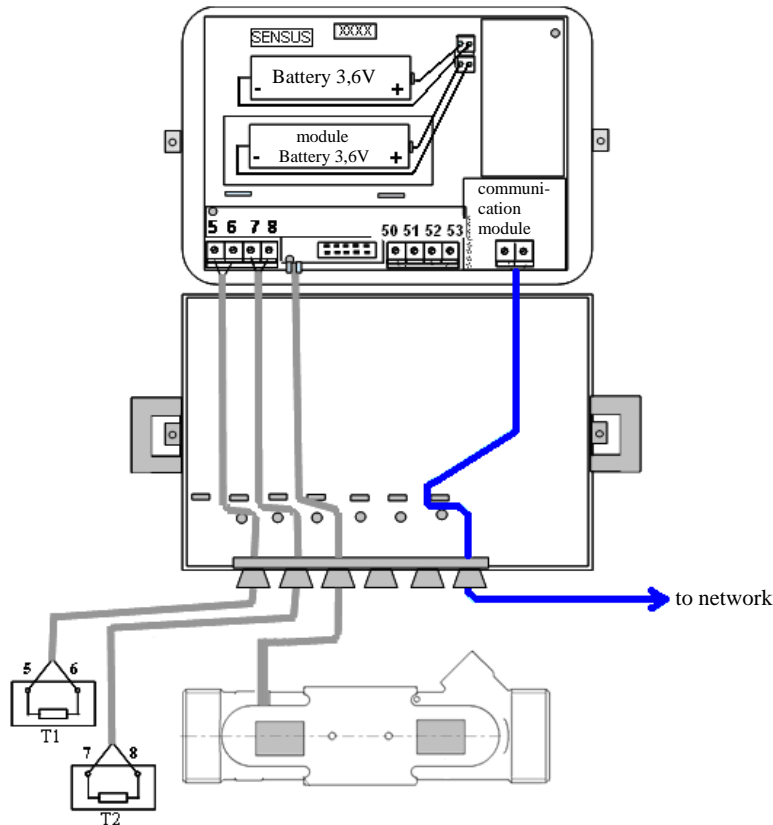


## 1. Use of the option modules

The modules are used to connect the heat meter PolluStat with a network (e.g. M-Bus or Mini-Bus).

### 1.1. Connection diagram



Picture 1: electrical connection diagram



Picture 2: M-Bus module



Picture 3: Mini-Bus module

T1 – temperature sensor warmer pipe (supply pipe)  
T2 – temperature sensor colder pipe (return pipe)

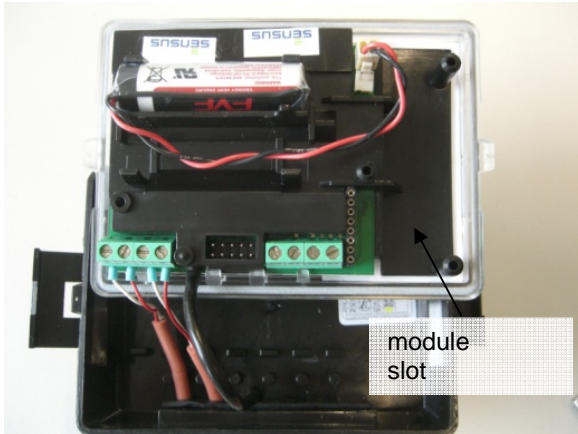
## 2. Safety instructions



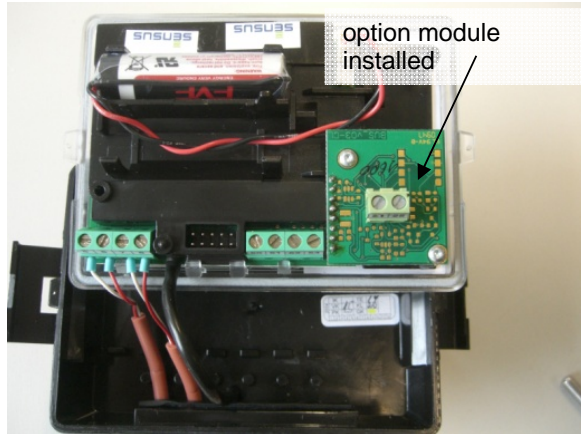
- The option modules may only be used for the PolluStat meter otherwise the modules or the heat meter could be damaged
- The included lithium battery and the meter battery must not be recharged, short-circuited, put in contact with water or exposed to temperatures of more than 80 °C.
- Batteries and electronic waste may only be disposed at suitable collection centers for professional waste disposal.
- The retrofittable communication modules are delivered in the form of circuit boards. In order to not damage them handle the devices carefully after taking them out of the protective package; the circuit boards may only be touched on the edge. Insert the devices without any interim storage into the heat meter PolluStat.

### 3. Installing modules in the calculators

The option modules will be installed on the right side in the opened meter.

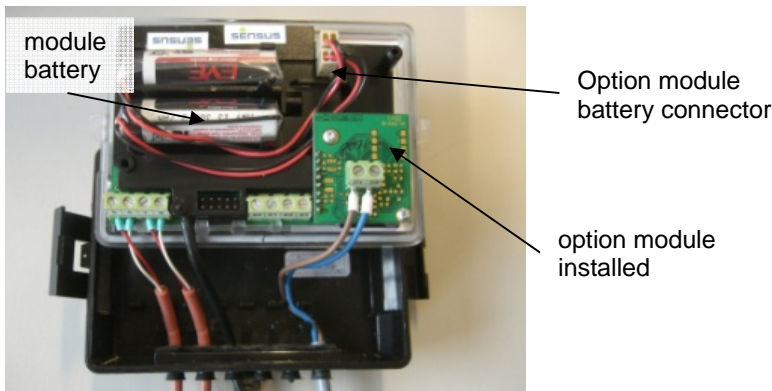


Picture 4: slot for option modules



Picture 5: installed option module

- Remove the user seal from the housing
- Open the housing cover by opening the black housing latches on the right and left side
- Put the option module into the designated contact sockets
- The contact pins must not be bent
- Mount the fixing screws
- Install the option module battery into the second battery holder and plug in the connector to the second battery connector
- Route the connecting cable through an available cable fitting and make a pull relief. Then connect the wires to the respective terminals
- Close the lid and seal the housing with a user seal



Picture 6: finally installed option module

## 4. Plug-in units and connections

### 4.1. M-Bus plug-in unit acc. EN1434-3 (68505124)

With this plug-in unit the meter can be read out via its primary or secondary address with an M-Bus-level converter (2400 Baud).

The M-Bus cable is connected to the connection clamps 24 and 25 via the plug-in unit. The polarity doesn't have to be considered.

### 4.2. Mini-Bus plug-in unit (68505132)

With this plug-in unit it is suitable to connect the meter with an inductive readout point (MiniPad) or other reading and transmitting instruments (e.g. radio transponders). The total length of the two-wire cable between the meter and the readout point must not exceed 50 m. The meter can be read out at the terminals 51 (signal) and 52 (ground) at (2400 Baud). The communication protocol corresponds to the M-Bus protocol.

Table 1: Numbering of the clamps

#### Calculator:

clamp no.	description
5	temperature sensor warmer pipe (supply pipe), (T1)
6	temperature sensor warmer pipe (supply pipe), (T1)
7	temperature sensor colder pipe (return pipe) (T2)
8	temperature sensor colder pipe (return pipe) (T2))
50	GND for 2 <sup>nd</sup> additional pulse input or output
51	2 <sup>nd</sup> additional pulse input or output (In / Out2) (Volume output on TEST mode)
52	GND for 1 <sup>st</sup> additional pulse input or output
53	1 <sup>st</sup> additional pulse input or output (In / Out1) (Energy output on TEST mode)

#### M-Bus module:

clamp no.	description
24	M-Bus (M-Bus module)
25	M-Bus (M-Bus module)

#### Mini-Bus module:

clamp no.	description
51	Signal (Mini-Bus module)
52	Ground (Mini-Bus module)

Edition: 002-1408  
Subject to changes



Certified according to ISO 9001  
Quality Management System Quality Austria Reg.no. 3496/0

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