

Clip-on Sensor for Heat Pump Controller

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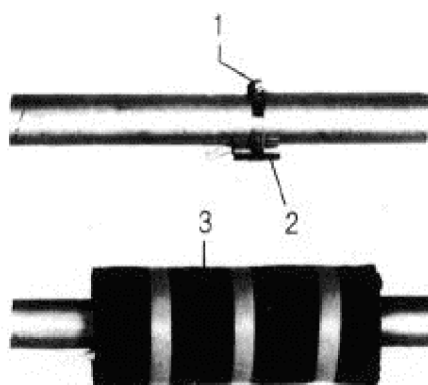
Installation Instructions

Order No.: 452114.67.30

Installation:

The sensor is mounted by securing it to the respective pipe by means of a hose clip, as shown in Fig.1. When so doing care must be taken that the sensor makes close contact with the pipe and the housing of the sensor is not damaged.

The area where the sensor is located has to be covered by means of suitable thermal insulation. Heat transfer to the sensor may be improved, if necessary, by applying some heat transfer compound between the pipe and sensor.



1 Hose clip 2 Sensor 3 Thermal insulation

Fig. 1: Installation of the clip-on sensor

The return sensor of the heat pump controller must always be located at the common return upstream of the heat pump so that the return temperature can be sensed in every operating mode (also in the hot water and swimming pool mode).

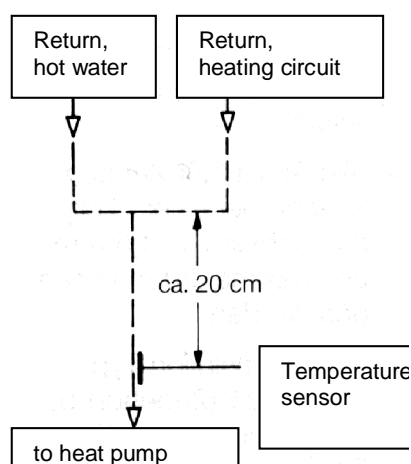


Fig. 2: Position of clip-on sensor as return sensor

The clip-on sensor can be used as flow line sensor in systems with two heating circuits. Note: The NTC sensor cable can be extended to max. 30m using standard installation cable (min. cross-section 1.5mm²). Never run sensor cables together with current-carrying conductors!

Dimensions:

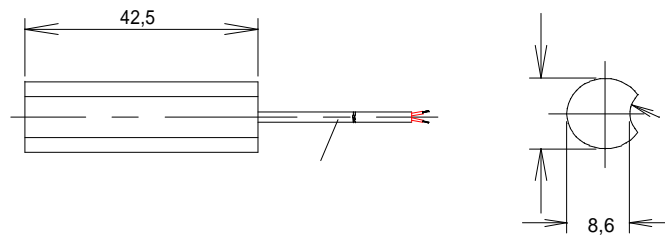


Fig. 3: Dimensions of clip-on sensor

Technical Data:

Sensor type: NTC sensor acc. to DIN 44574 in a metal housing
 Connecting cable: 6 m long
 Dimensions: see dimensioned drawing

Sensor characteristic acc. to DIN 44574

Temperature at sensor	°C	60	55	50	45	40	35	30	28	26	24	22
NTC sensor (standard, acc. to DIN 44574)	kΩ	0,59	0,69	0,82	0,97	1,15	1,38	1,66	1,77	1,93	2,08	2,25
Temperature at sensor	°C	20	16	12	8	4	0	-4	-8	-12	-16	-20
NTC sensor (standard, acc. to DIN 44574)	kΩ	2,43	2,85	3,36	3,98	4,73	5,64	6,76	8,14	9,84	11,96	14,62

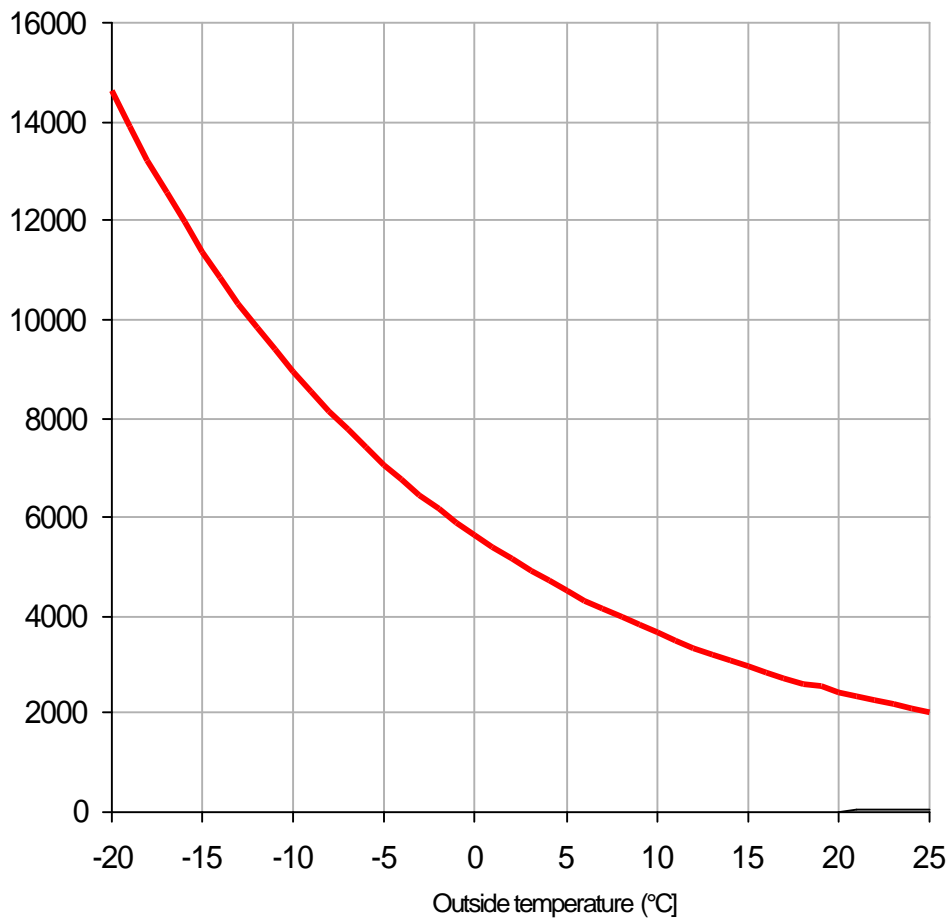


Fig. 4: NTC standard sensor acc. to DIN 44574