

Ask

**GerZ**

Tuesday, November 27, 2018 09:48

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My question

...

Hi

Does anyone have an idea how to make an "outside sensor" (external temp sensor) for the Elga itself?

The temp sensor on the outdoor unit shows a drop in the outdoor temp during operation of the Toshiba. Then, for example, the temp drops below 4° and the Elga stops. You will then see the temp rise again and the Elga will start again. This results in an unsettled business. Hence my search for an external sensor. But €110 (original version for Elga) seems a lot to me for such a simple recorder.



...

What I have already found or tried

...

Best answer (via GerZ on 29-11-2018 23:33)

**Chris_82**

Wednesday, November 28, 2018 4:14 PM

@ [GerZ](#) Have you seen this post from @ [Oxellaar](#)
[Oxellaar in "Air/Water heat pump for heating and cooling #5"](#)

14.4kWp, Loria Duo 6010, VWTW, DWTW, full electric.

All comments

**Tunda**

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**PS spike**

Wednesday 28 November 2018 15:15

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Seems more sensible to me. This issue will not be resolved with an external outdoor sensor either. By the way, recognize the behavior of the temperature sensor on the outdoor unit...not very reliable because of that.

Piece from the manual:

Section 9.11

After placing the outdoor sensor, it must be activated with dipswitch B1. With an external outdoor sensor, the outdoor sensor of the outdoor unit is only used to switch off the heat pump below 4°C.

Techneco Elga LW WP || 11.1 kWp PV (Fronius Symo 10kW, 20x280Wp + 17x325Wp) || Daikin LL WP 3MXM52N+1xFTXA42AW+2xFTXM20N || Vaillant AroSTOR 270L WPB || [PVOutput](#)

**Chris_82**

best answer

Wednesday, November 28, 2018 4:14 PM

+1

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14.4kWp, Loria Duo 6010, VWTW, DWTW, full electric.

**Oxellar**

Wednesday, November 28, 2018 4:46 PM

+1

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@ [GerZ](#)



This is how you can fix this problem "for free"

Removing skewers below 4 degrees doesn't help. Eventually the whole sensor freezes and goes way below 0.

I've even seen -10 with the sensor in the original spot.

In fact, the Elga didn't even get to a defrost, but turned on the boiler.

Slowly Elga thawed and came back in, only to play the same song again.

Reported this error to Techneco.... But they didn't know the problem, very strange, because everyone suffers from it.

[Edited for 64% by [Oxellaar](#) on 28-11-2018 17:08]

Samsung A3050/AR7000 - Elga 3.0

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Incidentally, my Elga through p62 happily continues to -10 and I have never seen that on the thermostat.

3120WP Omnik, 4825WP SolarEdge and heating with an Elga.



Oxellar

Sunday, December 2, 2018 10:50 PM

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@ [Aziraphale](#) you don't have to disassemble much to get to it, 4 screws loose from the top cover.

You cannot run with this depending on the weather, you really need the outdoor sensor on the indoor unit for that.

P62 is on me - 4 I thought. And -4 was already measured above 0 at the old position of the sensor after a 20 minute run.

[Edited for 22% by [Oxellaar](#) on 02-12-2018 22:53]

Samsung A3050/AR7000 - Elga 3.0



Aziraphale

Monday, December 3, 2018 09:43

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Okay, thanks! That problem does not occur with me, on the thermostat I just keep seeing the outside temperature that my other thermometer also indicates.

3120WP Omnik, 4825WP SolarEdge and heating with an Elga.



hansengriettina

Wednesday, January 30, 2019 20:41

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the sensor has also been moved. Techneco previously indicated that this was not possible, but they say that the problem is known.

[Edited 57% by [hansengriettina](#) on 01-02-2019 12:23 PM]



ELGA VDS

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temperature jump in the measured outside temperature. As an example: I see on the thermostat that the outside temperature is +3 degrees. Then I set the P63 value slightly differently, eg from 4 degrees to 2 degrees. As soon as I confirm the setting and the thermostat returns to normal mode, the measured outside temperature suddenly stands at +6 degrees.

All this in 2 minutes! It cannot be the case that the outside temperature differs so much in such a short period of time. My suspicion is therefore that the electronics that transmit the measured value are very unstable. This could be caused by an alternating supply voltage (DC) of the print electronics in the outdoor unit.

If someone has a good schematic of the PCB in the outdoor unit of the ELGA I would like to have that too. It is also interesting to hear if more ELGA users recognize this problem?

**ELGAAVDS**

Wednesday, January 1, 2020 22:55

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Unfortunately, removing the sensor has not turned out to be a solution. When the sensor is replaced by a fixed resistor, there still appears to be a variation in the measured temperature. That variation covers an area of even 4 degrees. I solved the problem with 2 external thermostats, a relay and 3 adjustable potentiometers. Interested parties may contact ad.steen@gmx.com. I can then provide any further details if required.

**Jim423**

Wednesday, January 1, 2020 23:02

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Can you just post here?

AMD Ryzen 3800X - 16GB DDR4 Corsair RGB - ASUS ROG STRIX 1080Ti - Panasonic HIT 990Wp - AE200L WPB w/ CV support

**HMvdSilks**

Wednesday, February 10, 2021 4:42 PM

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I also looked everywhere for a schematic of the outdoor sensor, in the end I bought one.

Outrageously expensive for next to nothing.

I have made a schedule for those who are interested.

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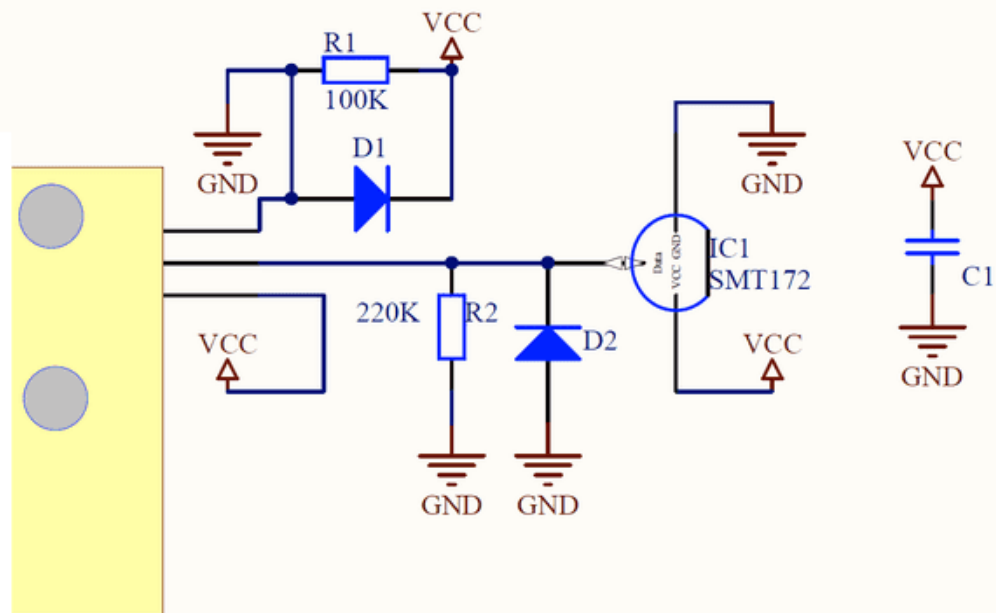
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The sensor is an SMT172, the rest of the circuit is only for protection against incorrect connection.

Aansluiten op de klemmen
van de Elga:

11
10
9

Daarna Dipswitch B1 op
On zetten



ELGAAVDS

Wednesday, February 17, 2021 6:45 PM

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Well done. I am curious if you see a stable reading on your thermostat. In my case, the reading swayed over a range of 3-4 degrees.



HMvdSilks

Thursday, February 25, 2021 20:27

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I use the Elga with my own control, separate from the boiler and without the thermostat. I therefore do not control based on the outside temperature sensor of the elga, I use my own sensors. I needed the outdoor sensor because the elga is difficult to control without the outdoor sensor and it keeps freezing and thawing because it has no idea of the outside temperature. He needs his own outdoor sensor to allow him to follow the correct heating curve.

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