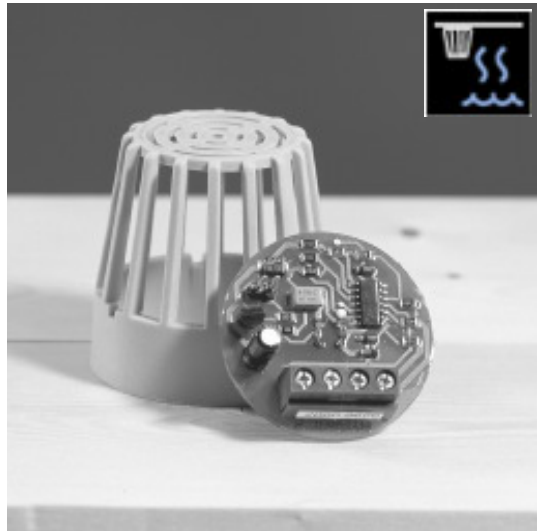


Humidity sensor F2



GB Assembly and operating instruction

1. General

- Always observe the instructions for use for the control unit and the measurements given in that document.
- Pay attention to the safety and installation notes from the manufacturers of the sauna heater.
- As with all repair and installation work, the unit must be removed from the main power supply before starting.
- Installation may only be carried out by an authorized electrician.
- The supplied humidity sensor is only designed to be connected to the following sauna control units EMOTEC HCS 9003, HCS 9003DB and HCS 9003 DL.

If in doubt, contact a specialist.

2. Scope of delivery

(We reserve the right to make changes)

Sensor circuit board

Sensor housing

2 wood screws 25 x 3 mm

4 m sensor cable (silicon sheath) 3 x 0.5²

3. Mounting and installing the humidity sensor

The humidity sensor is connected via a 3-wire silicon cable to the control unit using the clamps on the right-hand side of the lower board. This is labeled „Humidity sensor“ and the clamps are labeled E, Gnd and +UB.

Where:

+UB: Is the voltage feed for the sensor

Gnd: Ground (control unit)

E: Sensor voltage, depending on the humidity

The clamp on the sensor board is labeled accordingly. Pay attention to the appropriate color assignments or proceed in accordance with Figure 1.

The protective sheath (Figure 2) protects the sensor during transportation and must be removed before it is put into operation.

Connection for the EMOTEC HCS 9003, HCS 9003 DB/DL/DLF and EmoTouch PB/AF/GF

The sensors are connected within the control unit to the clamps on the lower right outside, in accordance with the following plan.

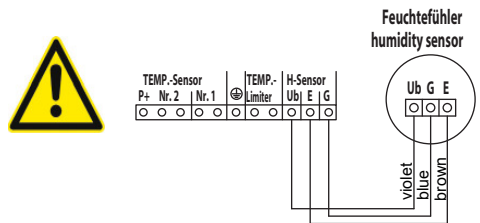
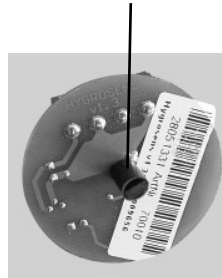


Fig. 1

Humidity sensor
with protective
sheath



Humidity sensor
without protective
sheath



Fig. 2

Caution: Pay attention to the correct connections – an incorrect connection will lead to a faulty sensor.

After the sensor is connected correctly the control unit automatically recognizes the sensor when the power supply is switched back on. The relative humidity of the air is now regulated precisely by the controlled vaporizer.

A tip for the experts:

If the sensor does not work, connect it directly to the control unit using shorter cables. The error may lie in the connection to the sensor which can then be excluded using this process. The correct functioning of the sensor can now be tested by breathing gently on the humidity sensor (see Figure 3). This humidity of your breath should then be displayed.

Mounting location: The humidity sensor is mounted centrally at a height of approximately 150 cm on one of the side walls opposite the heater.

Important notes regarding the mounting location of sauna hygrometers:

The relative humidity is lower the higher the temperature of the air. The temperature is highest just underneath the ceiling of the cabin and reduces the closer you get towards the floor. Thus the humidity of the air close to the cabin ceiling is relatively low. As a result, if you are using a sauna hygrometer, you should place it as close as possible to the humidity sensor. Any other mounting location could lead to considerable differences between the values shown on the control unit and the hygrometer. Remember that the readily available pointer hygrometers may often supply very inaccurate results and may also react very slowly. The humidity sensor, on the other hand, reacts very quickly and will measure the humidity in the immediate vicinity and display it using the control unit.

4. Cleaning

If, after a long period of operation, the humidity is not shown accurately or not regulated, the sensor can be cleaned by submerging it in alcohol

5. Adaptations for the various control units

On the component side of the board for the humidity module there are two contact pins designed to accommodate a jumper (bridge), position is shown in Figure 3. For „old“ control units (4580 D 24), the sensor must be adapted by adding a jumper. When controlling EMOTEC HCS 9003, HCS 9003 DB/DL/DLF, EmotTouch PB/AF/GF and our older units 4590 D24 and ECON H2S the jumper is not used.

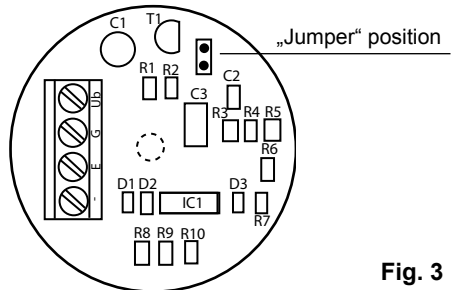


Fig. 3

Please keep this address in a safe place together with the installation guide.

To help us answer your questions quickly and competently, please provide data printed on the ID plate, to include system type, article no. and serial no., in all inquiries.

Service Address:

EOS-WERKE GÜNTHER GmbH
Adolf-Weiß-Straße 43
35759 Driedorf-Mademühlen, Germany
Fon: +49 (0)2775 82-0
Fax: +49 (0)2775 82-431
servicecenter@eos-werke.de
www.eos-werke.de

Guarantee

The guarantee is taken over according to the legal regulations at present.

Manufacturer's warranty

- The period of warranty starts from the date of purchase and lasts up to 2 years for commercial use and 3 years for private use.
- Always include the completed warranty certificate when returning equipment.
- The warranty expires for appliances which have been modified without manufacturer's explicit agreement.
- Damages caused by incorrect operation or handling through non-authorized persons are not covered under the terms of warranty.
- In the event of a claim, please indicate the serial number as well as the article code number and type name with expressive description of the fault.
- This warranty covers damaged parts but no defects due to wear and tear.

In case of complaint please return the equipment in its original packaging or other suitable packaging (caution: danger of transport damage) to our service department.

Always include the completed warranty certificate when returning equipment.

Possible shipping costs arising from the transport to and from point of repair cannot be borne by us.

Outside of Germany please contact your specialist dealer in case of warranty claims. Direct warranty processing with our service department is in this case not possible.

Equipment start-up date:

Stamp and signature of the authorized electrician:

Handling procedures for return shipments (RMA) - Details for all returns !

Dear customer

we hope that you will rejoice in the ordered articles. Just in case that you are not entirely contented as an exception, please follow the procedures specified below. This enabling us to ensure a quick and smooth handling of the return shipment.

Please absolutely respect for all returns!

- Please add the available **RMA-voucher** always **completely filled out** together with an **invoice copy** to the return shipment! Do not stick it on the goods or on the packaging. **We do not accept the return shipment without these papers.**
- Not prepaid parcels **will be refused** and returned to Sender! Please always ask for the **RMA-No.** for the cheapest return.
- **Please pay attention that** the goods have to be sent back **without visible marks of use** in the **original scope of delivery and in original packing.**
- We recommend to use an **additional solid and break-proof covering box** which should be padded out with styrofoam, paper or similar. Transport damages as a result of faulty packing are for the sender's account.

Form of complaint:

1) Transport damage

- Please check the content of your parcel immediately and advise the forwarding company of a claim (parcel service/ freight forwarder)
- Do not use damaged goods!
- Ask the forwarder **for a written acknowledgement of the damages.**
- **Report the claim promptly by phone to your dealer.** He will discuss with you how to act in this case.
- If the transport box has been damaged, please use an additional covering box. Do not forget to add the **acknowledgement of the damage of the forwarding company !**

2) Faulty goods

- The implied warranty period is 2 years. Please contact your dealer in case of **faulty or wrong articles or missing accessories.** He will discuss with you the individual case and try for immediate and customer-friendly solution.
- For **economic returns** within Germany you will get an **RMA-number from the manufacturer.**
- All returns have to be in the **original packing of the goods with corresponding accessories.** Please repack the goods to avoid damages. In case of wrong delivery, please do not use this article !

3) Problems of installation and functioning

- Please **read the manual carefully first of all** and pay attention to the indicated assembly or installing instructions.
- **Your dealer should be the first contact person** because he knows his products best and also knows possible problems.
- **In case of function problems with an article,** please check at first whether there is an obvious material defect. The quality system in our factory reduces malfunctions of new appliances to almost zero.