Assembly Instructions M8098-EN

Spare part heat sensor (O/ID T25603)

Purpose

Replacement of heat sensor (BT 1, BT 2.x)

Precondition

WARNING!
Danger for unauthorized persons!

Conversion work may only be carried out by specialist staff who have been trained accordingly.

Therefore:

– Keep unauthorized persons away from the work area.

NOTE!

Knowledge of the Instruction Manual is a precondition for carrying outconversion work on the unit.

Procedure

DANGER!
Danger to life caused by electric current!

Touching conductive parts causes a direct danger to life.

Therefore:

– For all work on the electrical system, for maintenance, cleaning or repair work, disconnect from the mains or disconnect all phases of the external power supply and secure them against being switched on again. Check unit is isolated from power supply.

WARNING!
Danger of crushing due to rolling away or tipping

With an uneven floor or when the castors are not locked, there is a danger that the unit tips over or rolls away causing crushing.

Therefore:

– Only install the unit on an even floor.
– Ensure that the castors are locked.

1. Proceed as follows in order to cool down the unit and empty the mould (mould evacuation)

- Display menu page Functions.
- Select the function Cooling and activate with the OK key.
- Select the function Mould evacuation and activate with the OK key.

→ The activated function is indicated with the ✔ symbol.

2. Main switch off, remove the plug from the mains and empty the unit.

3. Remove control cable to ext. flow rate meter Flow-5.

4. Detach the hexagon screw and remove ext. flow rate meter Flow-5.

5. Proceed as follows in order to remove the cover of the evaluation unit:

- Remove screws (Label 1 → Fig. 1).
- Detach screws (Label 2 → Fig. 2).
- Lift the cover with the keyboard and pull out the ribbon cable.
- Remove the cover with the keyboard.

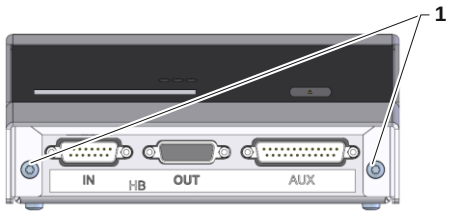

Fig. 1: Front side of the evaluation unit

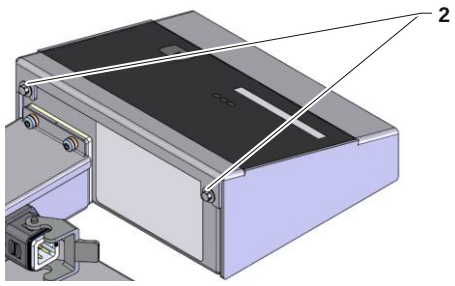

Fig. 2: Rear side of the evaluation unit

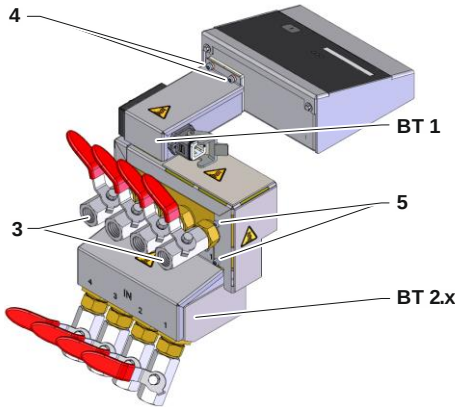

Fig. 3: Flow-5 with ball valve

6. Proceed as follows in order to remove the covers:

- If present disassemble shut-off valve OUT 1 and 4 (Label 3 → Fig. 3).
- Disassemble screws (Label 4 → Fig. 3), remove cover and insulation.
- Disassemble screws (Label 5 → Fig. 3), remove cover and insulation.

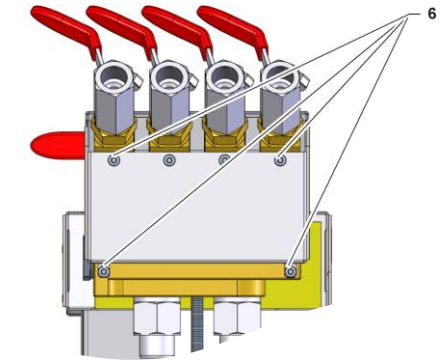

Fig. 4: Flow-5 view from below

Only in the event of a replacement temperature sensor return line (BT 2 x):

- Disassemble screws (Label 6 → Fig. 4) and remove cover.

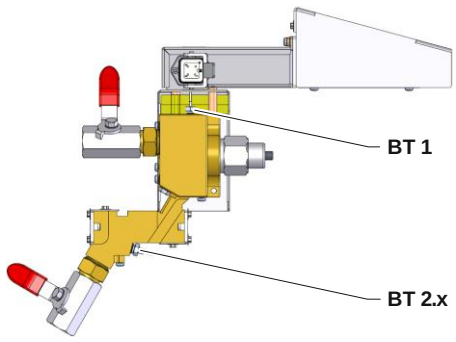

Fig. 5: Flow-5 side view from the right

7. Replace temperature sensor main line (BT 1) or return line (BT 2.x) while proceeding as follows:

- Disconnect temperature sensor (BT 1, BT 2.x) at the flow rate measuring board DFM-51 (A 9.x).
- Disassemble temperature sensor (BT 1, BT 2.x) (→ Fig. 5).
- Transfer label of temperature sensor to new temperature sensor (BT 1, BT 2.x) and install(→ Fig. 5).
- Connect temperature sensor (BT 1, BT 2.x) at the flow rate measuring board DFM-51 (A 9.x).

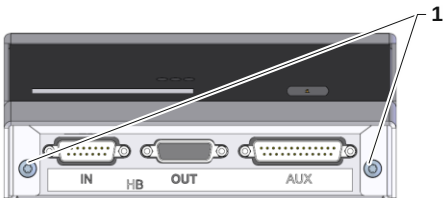

Fig. 6: Front side of the evaluation unit

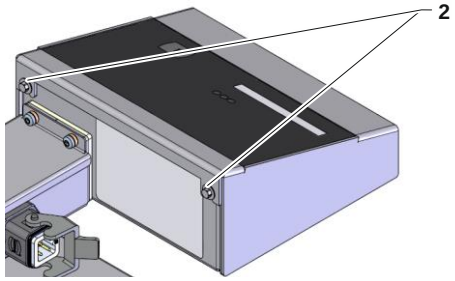

Fig. 7: Rear side of the evaluation unit

8. Proceed as follows in order to attach the cover of the evaluation unit:

- Connect the ribbon cable to the keyboard and attach the cover.
- Attach screws (Label 1 → Fig. 6).
- Tighten screws (Label 2 → Fig. 7).

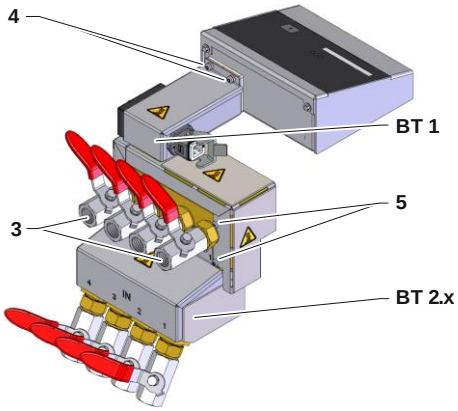

Fig. 8: Flow-5 with ball valve

9. Proceed as follows in order to attach the covers:

- Attach insulation and cover plate, mount screws (Label 5 → Fig. 8).
- Attach insulation and cover plate, mount screws (Label 4 → Fig. 8).
- If present install shut-off valve OUT 1 and 4 (Label 3 → Fig. 8).

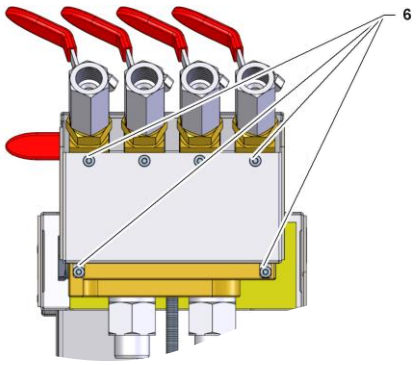

Fig. 9: Flow-5 view from below

Only in the event of a replacement temperature sensor return line (BT 2 x):

- Attach cover plate and mount screws (Label 6 → Fig. 9).

10. Connect control cable to ext. flow rate meter Flow-5.

11. Connect ext. flow meter to temperature control unit and secure with hexagon head screw.

12. Reconnect mains plug and switch on main switch.

13. Press the key to switch on the unit and check it for leaks.

14. Proceed as follows in order to calibrate the temperature sensor:

- When setting partameters set DFM recognition to the "integrated“ value (in Settings / Various), continue with Step **15**.
- When setting parameters set DFM recognition to the "modular“ value (in Settings / Various), continue with Step **16**.

Integrated operation

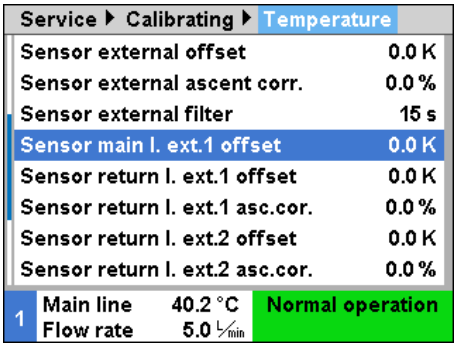

Fig. 10: Sensor calibration during integrated operation

15. Temperature sensor main line ext 1..8 and temperature sensor return line ext. Proceed as follows in order to calibrate 1..8 , if necessary, the temperature sensor:

- With a constant deviation set parameter Sensor… offset under Service / Calibration / Temperature.
- With a linear deviation, set parameter Sensor… asc.cor. under Service / Calibration / Temperature.

Operation Modular

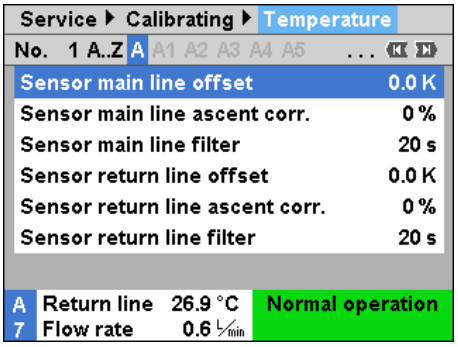

Fig. 11: Sensor calibration during modular operation

16. Proceed as follows, if necessary calibrate the temperature sensor for the main line and temperature sensor of the return line:

- Select the module affected e.g. "A1“ with the or buttons.
- With a constant deviation set parameter Sensor… offset under Service / Calibration / Temperature.
- With a linear deviation, set parameter Sensor… asc.cor. under Service / Calibration / Temperature.

17. Switch the unit off by press the key.

18. Main switch off.

Parts list

Pos	Description	O/ID	Pcs
01	Heat sensor Pt 1000, 0,53 m	T24888	1
02	Assembly instructions German	M8099-DE	1
03	Assembly instructions English	M8099-EN	1
04	Assembly instructions French	M8099-FR	1