

Spare part Sonic transducer (O/ID T26416-1, T26416-2)

### **Purpose**

Replacement of Sonic transducer (BB 1.x, BB 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

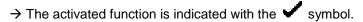
With an uneven floor or when the castors are not locked, there is a danger that the unit tips over or rolls away causing crushing.

#### Therefore:

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

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- 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 key.
- Select the function Mould evacuation and activate with the key.



- **2.** Main switch off, remove the plug from the mains and empty the unit.
- **3.** Proceed as follows to replace the sound transducer (BB 1.x, BB 2.x) at measuring ciricuit x:
- Disconnect the cable plug from the socket (X 402.x) → Fig. 1) at the evaluation unit.
- Disassemble screws (Label 1 → Fig. 1) and remove cover.
- Disconnect sound transducer (BB 1.x, BB 2.x → Fig. 1).
- Open the 8 pin cable plug and replace the sound transducer (BB 1.x, BB 2.x) with a new one (connect cable plug → Fig. 2).
- Close 8 pin cable plug and connect it to the socket (X 402.x → Fig. 1).
- Connect new transducer (BB 1.x, BB 2.x → Fig. 1) (tighten with max. 30 Nm torque).
- Mount covers with screws (Label 1 → Fig. 1).

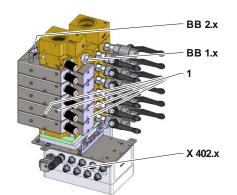


Fig. 1: Flow-5, autonom. module

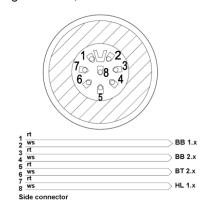


Fig. 2: Connection of sound transducer (BB 1.x, BB 2.x) to 8 pin cable plug.

- **4.** Reconnect mains plug and switch on main switch.
- 5. Press the key to switch on the unit and check it for leaks.

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- **6.** Proceed as follows to calibrate the flow rate metre:
- When setting parameters set DFM recognition to the "integrated" value (in Settings / Miscellaneous), continue with Step 7..
- When setting parameters set DFM recognition to the "modular" value (in Settings / Miscellaneous), continue with Step 8..

#### Integrated operation

7. Proceed as follows to calibrate the corresponding flow rate metre:

#### (from software version SW51-1 0849B)

- In normal operation operate the device at 40 °C for at least 10 minutes.
- Only in the case of water units:
  If present set the parameter Pressure relief with unit OFF at Setting / Miscellaneous to "OFF".
- Switch the unit off using button and wait at least 10 seconds.
- Set corresponding parameter Flow rate ext. 1..8 Calibration at Service / Calibration / Flow rate external 1 to 4 or Service / Calibration / Flow rate external 5 to 8 to "ON".
- → The flow rate is calibrated automatically.
- Only in the case of water devices:
  If present set the parameter Pressure relief with unit OFF at Setting / Miscellaneous to "ON".
- Switch the unit on with the key.

#### Flow rate ext. 1..4 Calibration ON Flow rate ext. 1 offset 0.0 1/min Flow rate ext. 1 ascent corr. 0.0% Flow rate ext. 1 Calibration OFF Flow rate ext. 2 offset 0.0 1/min Flow rate ext. 2 ascent corr. 0.0% Flow rate ext. 2 Calibration OFF Main line 40.0 °C Ready to operate Pressure 0.8 bar Fig. 3: Calibrate flow rate during integrated operation

... > Calibrating > Flow rate external 1 to 4

10 s

Flow rate ext. filter

## (up to software version SW51-1 0849B)

- In normal operation operate the device at 40 °C for at least 10 minutes.
- Set corresponding parameter Flow rate ext. ... offset at Service / Calibration / Flow rate external 1 to 4 or Service / Calibration / Flow rate external 1 to 4 to "5 L/min".
- Close the corresponding shut-off valve between the feed and return line and wait for 1 minute.
- Read current Flow rate.
- Set the parameter Flow rate ext. ... offset according to the following calculation:
- → Flow rate ext. ... offset new = 5 flow rate as it currently stands
- Opening the shut-off valve

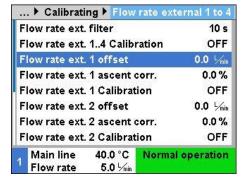


Fig. 4: Calibrate flow rate during integrated operation (<SW51-1 0849B)

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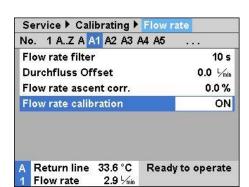


Fig. 5: Calibrate flow rate during modular operation

#### **Operation Modular**

- **8.** Proceed as follows to calibrate the corresponding flow rate metre:
- In normal operation operate the device at 40 °C for at least 10 minutes.
- Only in the case of water devices:
  If present set the parameter Pressure relief with unit OFF at Setting / Miscellaneous to "OFF".
- Switch the unit off using button and wait at least 10 seconds.
- Select the module affected e.g. "A1" with the to buttons
- Set parameter Flow rate calibration at Service / Calibration / Flow rate to "ON".
- → The flow rate is calibrated automatically.
- Only in the case of water devices:
  If present set the parameter Pressure relief at unit OFF at Setting / Miscellaneous to "ON".
- Switch the unit on with the key.
- 9. Inspection of calibration of Flow rate meter
- In normal operation operate the unit at 40 °C for at least 5 minutes following calibration.
- Close the corresponding shut-off valve between main and return lines.
- Flow rate returns to 0 L/min.
- If this is not the case repeat the Flow rate meter point.
- Punkt Durchflussmessung kalibrieren für jeden ersetzten Schallwandler wiederholen.
- **10.** Switch the unit off by press the wey.
- 11. Main switch off.

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# Parts list

			O/ID	
			T26416-1	T26416-2
Pos	Description	O/ID	Pcs	Pcs
01	Sonic transducer 160 °C 5FM external	T26113-1	1	-
02	Sonic transducer 180 °C 5FM external	T26113-2	-	1
03	Label '26416-X, rt = 1, ws = 2'	T26380-1	1	1
04	Label '26416-X, rt = 3, ws = 4'	T26380-2	1	1
05	Assembly instructions German	M8125-DE	1	1
06	Assembly instructions English	M8125-EN	1	1
07	Assembly instructions French	M8125-FR	1	1

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