

Assembly Instructions M8103-EN

Spare part pressure sensor (O/ID T25303-X, T27184)

Purpose

Replacement of pressure sensor (BP 1, 2)

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 out conversion 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.

with product group Thermo-5

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.
 - If the function **Mould evacuation** is available, select it and activate it with the **OK** key.
- The activated function is indicated with the  symbol.
- Units HB-100X_4 and HB-100/140/160Z_4 without function **Mould evacuation**: Loosen the drain connection (G) slowly until the unit is depressurized.

with product group Treat-5 / Clean-5

2. Switch on Emptying tank function as follows:
 - Display menu page **Functions**.
 - Select the parameter **Emptying tank** and activate with the **OK** key.
The active function is indicated with the  symbol.
3. Main switch off, remove the plug from the mains and empty the unit.
4. Remove the cover from the unit (see Instruction Manual Chapter Maintenance).
5. Loosen the screws in the front panel and hinge it down.
6. To remove pressure sensor (BP 1, 2), proceed as follows:
 - Disconnect the pressure sensor cable to GIF-51 (A 4), remove the cable ties and completely remove the cable.
 - Pressure sensor system (BP 1) → connector X 31.1
 - Pressure sensor main line (BP 2) → connector X 31.2
 - Remove the hydraulic connection to the pressure sensor. Remove the pressure sensor from the mounting bracket using a hexagon nut.
7. To mount the pressure sensor (BP 1, 2), proceed as follows:
 - Screw the pressure sensor with hexagon nut to the mounting bracket and install the hydraulic connection. Lay the pressure sensor cable through the cable duct and connect to GIF-51 (A 4). Lay the pressure sensor cable through the cable duct and connect to GIF-51 (A 4).
 - Pressure sensor system (BP 1) → connector X 31.1
 - Pressure sensor main line (BP 2) → connector X 31.2

8. Replace removed cable ties or replace with new ones.
9. Close and secure the front panel.
10. Reconnect mains plug and switch on main switch.
11. Check that the unit is free of pressure
(→ Pressure gauge rear of unit).
12. Calibrate the pressure sensor

with pressure sensor system (BP 1)

Service ▶ Calibrating ▶ Pressure		
Type of pressure sensor		0-20
Pressure sensor 1 offset	0.0	bar
Pressure sensor 1 ascent c.	0.0	%
Pressure sensor 2 offset	0.0	bar
Pressure sensor 2 ascent c.	0.0	%
Pressure sensor filter		2 s
1 Main line	28.0 °C	Ready to operate
Pressure	0.0 bar	

Fig. 1: Calibrate the pressure sensor 1

- Read off the current **System pressure actual value** under **Display \ Actual value**.
- Set the parameter **Pressure sensor 1 offset** under **Service \ Calibrating \ Pressure** according to the following calculation:
→ **Pressure sensor 1 offset new** = **Pressure sensor 1 offset current** – **System pressure actual value current**

with pressure sensor main line (BP 2)

Service ▶ Calibrating ▶ Pressure		
Type of pressure sensor		0-20
Pressure sensor 1 offset	0.0	bar
Pressure sensor 1 ascent c.	0.0	%
Pressure sensor 2 offset	0.0	bar
Pressure sensor 2 ascent c.	0.0	%
Pressure sensor filter		2 s
1 Main line	28.2 °C	Ready to operate
Pressure	0.0 bar	

Fig. 2: Calibrate the pressure sensor 2

- Read off the current **Main line pressure** under **Display \ Actual value**
- Set the parameter **Pressure sensor 2 offset** under **Service \ Calibrating \ Pressure** according to the following calculation:
→ **Pressure Sensor 2 offset new** = **Pressure Sensor 2 offset current** – **Main line pressure current**

13. Check calibration pressure sensor
 - Parameter **System pressure actual value** resp. **Main line pressure** under **Display \ Actual value** must be 0 bar ± 0,1.
 - If this is not the case, item calibration pressure sensor must be repeated.





ATTENTION!

Risk of incorrect calibration!

False calibrations can lead to faults with the unit.

Therefore:

- Check the calibrations.

14. Press the  key to switch on the unit, check unit functions and check it for leaks.
15. Switch the unit off by press the  key.

16. Main switch off.
17. Close the unit correctly again.

Parts list

Pos	Description	O/ID	O/ID						
			T25303	T25303-1	T25303-2	T25303-3	T25303-4	T25303-5	T27184
			Pcs	Pcs	Pcs	Pcs	Pcs	Pcs	Pcs
01	Pressure sensor stainless 0–20, 1,0 m	T25305	1	-	-	-	-	-	-
02	Pressure sensor stainless 0–20, 1,2 m	T25305-1	-	1	-	-	-	-	1
03	Pressure sensor stainless 0–20, 1,5 m	T25305-2	-	-	1	-	-	-	-
04	Pressure sensor stainless 0–20, 1,9 m	T25305-3	-	-	-	1	-	-	-
05	Pressure sensor stainless 0–50, 1,9 m	T25305-4	-	-	-	-	1	-	-
06	Pressure sensor stainless 0–20, 1,7 m	T25305-5	-	-	-	-	-	1	-
07	Assembly instructions German	M8103-DE	1	1	1	1	1	1	1
08	Assembly instructions English	M8103-EN	1	1	1	1	1	1	1
09	Assembly instructions French	M8103-FR	1	1	1	1	1	1	1