

7 Service and repair

If an error occurs during operation, you will find troubleshooting and corrective information in this chapter.

Repairs to the equipment may only be performed by Bühler authorised personnel.

If you have any questions, please contact our service department:

Tel.: +49-(0)2102-498955 or your local representative.

Further information about our individual service solutions for repair, modification and commissioning can be found at <https://www.buehler-technologies.com/service>.

If, after rectifying any faults and switching on the mains voltage, the device does not function correctly, it must be checked by the manufacturer. Please send the equipment inside suitable packaging to:

Bühler Technologies GmbH – BZL

Halle A1 – Aircompark

Halskestr. 24

40880 Ratingen

Germany

In addition, please attach the completed and signed RMA decontamination declaration to the packaging. Otherwise, your repair order cannot be processed. You can find the form in the appendix of these instructions, or simply request it by e-mailing:

service@buehler-technologies.com

7.1 Troubleshooting

CAUTION



Risk due to defective device

Personal injury or damage to property

- Switch off the device and disconnect it from the mains.
- Repair the fault immediately. The device should not be turned on again before elimination of the failure.



Problem / Malfunction	Possible cause	Action
No or reduced gas flow	– Filter element clogged	– Clean or replace filter element, clean sampling tube
	– Gas circuit clogged	– Ball valve open
	– Ball valve closed	– Check compressed air supply
	– Blowback (optional) not responding	– Check solenoid valve, check pneumatic control
Temperature alarm	– Heat-up not yet completed	– Wait for heat-up to complete
	– Pt100 failure	– Send in probe for repair
	– Heater / controller failure	– Send in probe for repair
No heat output / no display	– No / incorrect voltage	– Power supply
	– Controller failure	– Send in probe for repair
Condensation forming	– Heater failure	– Send in probe for repair
	– Thermal bridges at the sampling point	– Insulate to eliminate thermal bridges
Error messages on the display		
Error 01	– Probe temperature too high, line Pt100 disconnected	– Check Pt100 connection inside the controller or send probe in for repair
Error 02	– Probe temperature too low, Pt100 short-circuit	– Send in probe for repair
Error 03	– Heated extension temperature too high, line Pt100 disconnected	– Check Pt100 connection inside the controller or send probe in for repair
Error 04	– Heated extension temperature too low, Pt100 short-circuit	– Send in probe for repair
Error 13	– Limit switch not responding	– Check limit switch connection inside the controller or send probe in for repair

Tab. 2: Troubleshooting

7.2 Spare Parts

Please also specify the model and serial number when ordering parts.

Upgrade and expansion parts can be found in our catalog.

Available spare parts:

Item no.	Description
9110000001	Fuse 115 V/230 V: 800 mA delayed action
9009105	Measuring outlet seal
9009079	Flange seal DN65 PN6
9009068	Flange seal FD 40 WS
46222012	O-ring kit for filter element and probe, material: Viton
46222024	O-ring kit for filter element and probe, material: Perfluoroelastomer
	Please see the accessories data sheet in the appendix for filter elements