

Fault finding / causes / remedies for pressure leak detector D9 / D29

General information – authorized staff

Assembly, starting up, maintenance and repair of this leak detector have to be carried out only by specialists with proven knowledge of the construction and operation of systems for handling liquids that are hazardous to water, as well as special knowledge in leak detection systems.

Furthermore, the specialists must also have sufficient knowledge in the area of fire and explosion protection.

In general once a fault has been found and remedied, a function check should be carried out in accordance with the relevant technical specification for the leak detector

Fault / defect	Cause	Remedy
Leak detector on alarm status (red light, buzzer); pump runs continuously, does not switch off	Leakage within the system; leakage rate higher than the pump performance	Check that leak detector is not leaking; bypass leak detector with a tube (approx. 1m, 4x2) (bypass between SL and ML) and then check whether there is a leak in the leak detector. Once the leak detector is tight, the pump will switch off immediately and the alarm will go off. Rule of thumb: there is no leak in the leak detector if the period between the pump being OFF and being ON is >40sec. If not in working order: defect in the leak detector (pump, pressure switch, piping, filter, ventilation valve, test valve)
	Connections between monitoring space and leak detector are leaky / blocked (screw fittings, pipes, conduits, condensate bins, suction vent on the air drier). Frost has entered the system	Check whether connections are leaking (e.g. by bypassing in several places). Check whether pipes are clear, clean pipes, defrost the system, install heating
	Tank (pipe) leaky	Repair tank (pipe)
	Pump defective or not producing the required performance	Check pump; attach test device to leak detector's pressure connector; high pressure as shown should be around 490 mbar, close the overpressure valve on the pump slowly until the reading on the testing device shows 1bar > Pump producing required pressure, reset overpressure valve in accordance with the technical specification. If the fault has not been remedied, replace pump / device
	Pressure switch is defective (micro switch defective, switching points not correct)	Check switching points: - attach testing device to test valve, open screw - by opening and closing the ventilation screw the switching points can be checked and, if required, adjusted in accordance with the instructions for adjustment
Leak detector on alarm status (red light, buzzer); pump is not running	No supply voltage to the pump; pump is defective; low temperatures / no heating	Check voltage at pump; replace pump; install heating
	The pump's thermo-switch has been activated as a result of overheating (high temperatures within the device, motor has overheated as a result of continuous use). Thermo-switch is defective	Check positioning / surrounding conditions. Determine and remove reason for continuous operation (e.g. leakage)

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Fault / defect	Cause	Remedy
Pump is working continuously but alarm has not been raised	Overpressure valve on the pump has been altered, pump does not reach the "Pump off" switching point	Adjust overpressure valve in accordance with the technical specification, or replace pump
Pump works more and more often or on for a longer period	Gradually increasing leak within the system that has not yet led to the alarm being raised	Check leak detector, connections and tank for any leakages, see above
	Pump performance is decreasing	Check pump performance, see above
Power light (green) OFF	No supply voltage	Check voltage and electrical connections
	Light defective	Replace light
Pump becoming increasingly loud when operating	Defect within the pump (motor / pump head)	Replace pump