component	KKS	Component	Fault	Possible Cause	Remedy	Benutzerhandbuch
KONDENSATOR						
K		Process	Condenser doesn't start	A-Alarm queued	Remedy the fault, acknowledge the alarm	
K		Process	Condenser doesn't start	No release	Check releases	
K		Process	Condenser doesn't start	Temperature at flue gas inlet too low	Adjust limit temperature of the flue gas inlet, inform IS SaveEnergy AG	
K		Process	Condenser doesn't start	Temperature at flue gas inlet too high	Check the firing setting, inform IS SaveEnergy AG	
K		Process	Condenser doesn't start	Water level too low	Feed and check the feed	
K		Process	Condenser doesn't start	No start command at the control panel	Switch on the plant	
K		Process	Condenser start is cancelled, timeout fault			
K		Process	No condensing operation	Return temperature too high Excess air too high Not enough water content in the fuel	Check and improve boundary conditions	
K		Process	Low level	No condensation Return temperature too high Excess air too high Not enough water content in the fuel	Check and improve boundary conditions	
K		Process	Low level		See emergency cooler and/or feeding valve	
K		Process	High fresh-water consumption	Emergency cooler and/or feeding valve is open	Switch to automatic mode, remedy the fault	
K		Process	High fresh-water consumption	High conductance value in process water no condensation, bad fuel	Check and improve boundary conditions, check the fuel	
K		Process	High fresh-water consumption	High pH-value in process water, no condensation, bad fuel	Check and improve boundary conditions, check the fuel	
K		Process	High control value	No condensation, bad fuel	Check and improve boundary conditions, check the fuel	
K		Process	High pH value	No condensation, bad fuel	Check and improve boundary conditions, check the fuel	
K		Process	Formation of foam	Bad burning	Adjust firing	
K		Process	Formation of foam	Bad burning, stop-go operation	Adjust firing	
K		Process	Process water tank 1 overflow	No signal from level sensor	See HTD01CL101	
K		Process	Process water tank 1 overflow	Water treatment line closed or blocked	Open valve, automatic mode, check and clean line	
K		Process	Process water tank 1 overflow	Nozzle arrangement	Inform IS SaveEnergy	
K		Process	Process water tank 1 overflow	Emergency overflow blocked	Check and clean the line	
K		Process	Process water tank 1 overflow	Emergency cooler and/or feeding valve is open	Switch to automatic mode, remedy the fault	
K		Process	Process water tank 2 overflow	No signal from level sensor	See HTD01CL101	
K		Process	Process water tank 2 overflow	water treatment line closed or blocked	Open valve, automatic mode, check and clean line	
K		Process	Process water tank 2 overflow	Nozzle arrangement	Inform IS SaveEnergy	
K		Process	Process water tank 2 overflow	Flue gas flow too high	Inform IS SaveEnergy	
K		Process	Process water tank 2 overflow	Emergency overflow blocked	Check and clean the line	
K		Process	Process water tank 2 overflow	Emergency cooler and/or feeding valve is open	Switch to automatic mode, remedy the fault	
K		Process	Leak in the service lid	Defective or worn seal	Replace the seal	
K		Process	Leak in compensators		See General: Compensator	
K		Process	Leak in pump		See Pump; inform IS SaveEnergy	
K		Process	Feed and emergency cooling not functioning or flow rate is too low	Valve defective	Check and replace valve if necessary	
K		Process	Feed and emergency cooling not functioning or flow rate is too low	Mains system pressure too low	Increase mains system pressure, completely open the shut-off valves	
K		Process	Feed and emergency cooling not functioning or flow rate is too low	Valve in manual mode	Switch to automatic mode	
K		Process	Boiler fan at power limit	Fan from condenser running incorrectly, underpressure sensor	See Underpressure Sensor HTD01CP001	
K		Process	Boiler fan at power limit	Pressure loss in flue gas line too high from the condenser inlet to the chimney; check for obstacles and dirt deposits	Remove obstacles and dirt	
K		Process	Underpressure cannot be maintained	Volume flow from boiler too high	Check firing power, firing setting;	
K		Process	Underpressure cannot be maintained	Pressure loss in flue gas line too high from the condenser inlet to the chimney; check for obstacles and dirt deposits	Remove obstacles and dirt	
K		Process	Underpressure cannot be maintained	Line to pressure measurement is dirty	Blow out and clean the line	
K		Process	Underpressure cannot be maintained	Defective pressure sensor	See Underpressure Sensor HTD01CP001	
K		Process	Nozzle pressure cannot be reached	Nozzles close or have fallen off	Replace nozzles	
K		Process	Fan control fluctuates	PID controller	Re-adjust the PID controller	
K		Process	Fan control fluctuates	Obstacle in flue gas line	Check flue gas line and clean if necessary	
K		Process	Nozzle pressure cannot be reached	Dirt in heat exchanger	Back flush or clean, add citric acid, see Heat Exchanger HTD01AC002	
K		Process	Nozzle pressure cannot be reached	Rate/level of delivery too low	See Process Water Pump HTD01AP0xx	
K		Process	Nozzle pressure cannot be reached	Switch pump to manual mode at a low speed	Switch to automatic mode	
K		Process	Pressure loss over the HE increases	Chalk or dirt deposits in the heat exchanger	Back flush or clean, add citric acid, see Heat Exchanger HTD01AC002	
K	HTA0xCT0xx	Temperature sensor			See "General" Temperature Sensor	
K	HTC01AN001	Flue gas fan	Fan is turbulent	Caking on the impeller blades	Carefully clean the impeller	
K	HTC01AN001	Flue gas fan	Fan is turbulent	Worn impeller	Replace the impeller	
K	HTC01AN001	Flue gas fan	Fan is turbulent	Impeller deformed by heat	Replace the impeller	
K	HTC01AN001	Flue gas fan	Fan is turbulent	Irregular blockages in fan due to uneven foundation	Release the anchoring and level the foundation. Then fix the fan back on.	
K	HTC01AN001	Flue gas fan	Fan is turbulent	Improper setting of the anti-vibration buffer or the isolation springs.	Correct the setting.	
K	HTC01AN001	Flue gas fan	Fan is turbulent	Pipe connections screwed on too tight.	Insert flexible pipe connections (compensators)	
K	HTC01AN001	Flue gas fan	Medium being pumped exits at the shaft seal	Defective or worn seal.	Replace the seal	
K	HTC01AN001	Flue gas fan	Grinding noises at the fan	Impeller scrapes on intake pipe.	Release the top section of the housing and realign; check and correct pipeline if necessary.	
K	HTC01AN001	Flue gas fan	Grinding noises at the fan	Noises at the motor.	Check motor for bearing damage and replace bearing if necessary	
K	HTC01AN001	Flue gas fan	The flow volume specified on the motor plate is constantly exceeded	Air volume too high.	Reduce the air volume with a flue damper until the permitted flow rate is reached	
K	HTC01AN001	Flue gas fan	The flow volume specified on the motor plate is constantly exceeded	Other speed at 60 Hz network	60 Hz network	
K	HTC01AN001	Flue gas fan	Fan doesn't start	Drive motor incorrectly connected.	Check the connection	
K	HTC01AN001	Flue gas fan	Fan doesn't start	The motor stops at star in a star-delta circuit.	Shorten the switching time from star to delta.	
K	HTC01AN001	Flue gas fan	Fan doesn't start	Runs against too little plant resistance	Close the flue dampers or install additional sheet covers	

component	KKS	Component	Fault	Possible Cause	Remedy	Benutzerhandbuch
K	HTC01AN001	Flue gas fan	Fan doesn't start	Motor protection equipment is too weak	The cable cross-section and the protective equipment must provide the start-up current during startup	
K	HTC01AN001	Flue gas fan	Fan doesn't start	Startup time too long	Close the flue dampers; check torque at motor MA/MN	
K	HTC01AN001	Flue gas fan	Fan doesn't start	Defective drive motor	Check and replace the motor if necessary	
K	HTC01AN001	Flue gas fan	Fan doesn't start	Motor too hot due to high frequency of operation	Operate the fan in continuous operation and control with the flue damper or frequency converter	
K	HTC01AN001	Flue gas fan	Fan doesn't start	Startup current too high	Incorrect voltage. Provide star-delta startup, local network too weak	
K	HTC01BRxxx	Compensator			See "General" Compensator	
K	HTD01AA00x	Solenoid valve			See "General" Solenoid Valve	
K	HTD01AA0xx	Shutting flap	Flap cannot move to end position	Dirt / contamination	Clean the flap	
K	HTD01AAxxx	Ball tap			See "General" Ball Tap	
K	HTD01AA9xx	Switchover valve(optional)	Flap cannot move to end position	Dirt / contamination	Clean the flap	
K	HTD01AC002	Plate HE	Pressure loss increasing over the heat exchanger	Chalk or dirt deposits in the heat exchanger	Flushback or clean, add citric acid	
K	HTD01AC003	Plate HE	Delta T increasing over heat exchanger	Chalk or dirt deposits in the heat exchanger	Flushback or clean, add citric acid	
K	HTD01AC004	Plate HE	Leak	Loose screw connection	Check screw connection	
K	HTD01AC005	Plate HE	Leak	Brittle seals	Open HE and replace seal	
K	HTD01AP0xx	Process water pump			See "General"	
K	HTD01AP0xx	Process water pump	Overheating / Overload	Rate of delivery too low	Increase minimum rate of delivery	
K	HTD01AP0xx	Process water pump	Shaft seal leakage too high	Scoring or roughness in the shaft bushing	Replace shaft bushing, replace shaft seal	
K	HTD01AP0xx	Process water pump	Shaft seal leakage too high	Shaft seal worn	Replace the shaft seal	
K	HTD01AP0xx	Process water pump	Shaft seal leakage too high	Pump is turbulent	Correct suction/intake conditions, increase pressure at pump inlet side	
K	HTD01AP0xx	Process water pump	Shaft seal leakage too high	Pump overtight or resonance vibrations in the pipeline	Check pipeline connections and pump fixture; decrease the distance between the pipe clips if necessary; fix the pipelines using vibration-damping material	
K	HTD01AP0xx	Process water pump	Rate of delivery too low	Scoring or roughness in the shaft bushing	Replace shaft bushing, replace shaft seal	
K	HTD01BB050	Receptacle control value probe	Leak		Reassemble the container	
K	HTD01BB052	Receptacle pH electrodes	Leak		Reassemble the container	
K	HTD01BNxxx	Nozzles	Uneven spraying pattern	Nozzles worn	Replace	
K	HTD01BNxxx	Nozzles	Uneven spraying pattern	Nozzles deformed due to excessive temperatures	Check the settings of the inlet and outlet temperatures	
K	HTD01BNxxx	Nozzles	Uneven spraying pattern	Mains system pressure too low	Increase mains system pressure, completely open the shut-off valves	
K	HTD01BR8xx	Compensator			See "General" Compensator	
K	HTD01BR8xx	Expansion joint	Leak	Loose screw connection	Tighten the screws	
K	HTD01BR8xx	Expansion joint	Leak	Wear	Replace	
K	HTD01BR8xx	Expansion joint	Leak	Brittleness due to excessive temperature	Callback required, replace	
K	HTD01BR8xx	Expansion joint	Leak	Brittleness due to composition of process water	Callback required, replace	
K	HTD01CF0xx	Flow rate measurement (pump meter)	Incorrect indication of rate of flow	Opening to the diaphragm dirty	Clean the line	
K	HTD01CF0xx	Flow rate measurement (pump meter)	Incorrect indication of rate of flow	Defective sensor	Replace the sensor	
K	HTD01CF0xx	Flow rate measurement (pump meter)	Incorrect indication of rate of flow	Incorrect flow rate range setting in the controller	Adjust to the correct range	
K	HTD01CF0xx	Flow rate measurement (pump meter)	No indication of the flow rate	Defective electrical wiring	Check electrical wiring	
K	HTD01CF0xx	Flow rate measurement (pump meter)	No indication of the flow rate	Defective sensor	Replace the sensor	
K	HTD01CG0xxH/L	Drive limit switch	No response	Defective electrical wiring	Check electrical wiring	
K	HTD01CG0xxH/L	Drive limit switch	No response	Defective limit switch	Replace the sensor	
K	HTD01CG0xxH/L	Drive limit switch	No response	Flap cannot move to end position	Clean the flap	
K	HTD01CL1xx	Floating switches			See "General" Floating Switches	
K	HTD01CP001	Underpressure measurement (differential press	Incorrect pressure indication	Condensate or dirt in the line to the sensor	Clean the line	
K	HTD01CP001	Underpressure measurement (differential press	Incorrect pressure indication	Defective sensor	Replace the sensor	
K	HTD01CP001	Underpressure measurement (differential press	Incorrect pressure indication	Pressure range setting in the controller is incorrect	Set the correct range	
K	HTD01CP001	Underpressure measurement (differential press	No pressure indication	Defective electrical wiring	Check electrical wiring	
K	HTD01CP001	Underpressure measurement (differential press	No pressure indication	Defective sensor	Replace the sensor	
K	HTD01CP0xx	Pressure measurement	Incorrect pressure indication	Opening to the diaphragm dirty	Clean the sensor	
K	HTD01CP0xx	Pressure measurement	Incorrect pressure indication	Defective sensor	Replace the sensor	
K	HTD01CP0xx	Pressure measurement	Incorrect pressure indication	Pressure range setting in the controller is incorrect	Set the correct range	
K	HTD01CP0xx	Pressure measurement	No pressure indication	Defective electrical wiring	Check electrical wiring	
K	HTD01CP0xx	Pressure measurement	No pressure indication	Defective sensor	Replace the sensor	
K	HTD01CQ011	Control value measurement	"PWR FAIL" (power output 22mA)	• Power supply is unstable or less than 12 V DC. • Power supply is defective.	• Use power supply between 12 and 30 V DC. • Use a filtered and controlled power supplyn • Replace the device	
K	HTD01CQ011	Control value measurement	"ERROR" (power output 22mA)	Error in internal memory (EEPROM)	• Switch the device off then back on. • Replace the device	
K	HTD01CQ011	Control value measurement	"-- °C" (power output 22mA)	The temperature of the fluid is outside the range (-40 °C >T° or T°>+120 °C).	• Check the temperature of the process. • Replace the device	
K	HTD01CQ011	Control value measurement	"-- mS" (power output 22mA)	The black connector of the conductivity sensor is not longer connected to the electronic board.	• Reconnect the black connector of the conductivity sensor to the electronic board. • Replace the device	
K	HTD01CQ011	Control value measurement	"0000" power output 4...20mA)	The measured conductivity is zero.	• Check the sensor coefficient (must be identical to 6 or 7). • Reconnect the gold connector of the conductivity sensor to the electronic board. • Replace the device	
K	HTD01CQ011	Control value measurement	"9999" power output 4...20mA)	The measured value cannot be displayed because it is too large.	• Change the measuring unit (e.g.: from mS to S) • Change the decimal point	
K	HTD01CQ011	Control value measurement	Conductivity value flashes (power output 22mA)	Conductivity is outside of the range (>2 S)	• ->Make sure conductivity <2 S • Check the sensor coefficient (must be identical to 6 or 7). • Replace the device	
K	HTD01CQ011	Control value measurement	ON (power output 22mA) "Sensor not found"	Connection to the test card interrupted	• Switch the device off then back on. • Replace the device	
K	HTD01CQ011	Control value measurement	ON (power output 22mA) "S EE Fact Read"	• Factory settings lost • Accuracy of the device is impaired	• Switch the device off then back on. • Replace the device	
K	HTD01CQ011	Control value measurement	ON (power output 22mA) "S EE User Read"	Sensor user data lost	• Switch the device off then back on • Check the sensor data in all "Sensor" menus, then re-save the data • Replace the device	

component	KKS	Component	Fault	Possible Cause	Remedy	Benutzerhandbuch
K	HTD01CQ011	Control value measurement	ON (power output 22mA) "S PT Missing"	Connection to Pt1000 lost	• Check tight seating of the connecting nut between the sensor unit and the electronic module. • Replace the device	
K	HTD01CQ011	Control value measurement	ON (power output 22mA) "S PT Regulation"	• The temperature of the fluid is measured incorrectly. • The process is stopped.	• Switch the device off then back on • Replace the device	
K	HTD01CQ011	Control value measurement	ON (power output 22mA) "S RCT Clock"	The clock is defective. The process is continued	Replace the device when clock is required	
K	HTD01CQ011	Control value measurement	ON (power output 22mA) "TR EE Fact/User Read"	Data read error	• Switch the device off then back on • If the fault continues, reset the device to its basic settingsk • Replace the device	
K	HTD01CQ011	Control value measurement	ON (power output 22mA) "TR COM Measure"	• The module that detects and converts the measured variables is defective. • The process is interrupted.	• Switch the device off then back on • Replace the device	
K	HTD01CQ011	Control value measurement	ON (power output 22mA) "TR EE UserWrite"	Data storage error	• Switch the device off then back on • Re-save the data • If the fault continues, reset the device to its basic settings • Replace the device	
K	HTD01CQ011	Control value measurement	OFF (power output 4...20mA) "S RTC Reinit"	The data and time have been lost because the device has not been supplied with power for at least 5 days	Reset the date and time of the device - connect the transmitter to power for at least four hours to ensure that time can be detected for the next five days.	
K	HTD01CQ011	Control value measurement	ON power output 22mA) "E: Conductivity"	Conductivity is outside of the range	• Read-off the conductivity in the "Sensor" menu • If necessary, clean then recalibrate the sensor	
K	HTD01CQ011	Control value measurement	ON power output 22mA) "E: Polarization"	The increase in the polarization curve is too high	• Call the "Sensor" function from the diagnostics menu to read-off the polarization curve increase value • If necessary, clean then recalibrate the sensor	
K	HTD01CQ011	Control value measurement	ON power output 22mA) "E: Temperature"	The fluid temperature is outside of the range	• If necessary check the correct function of the integrated Pt1000 by measuring a fluid with a known temperature • Replace the device	
K	HTD01CQ011	Control value measurement	OFF (power output 4...20mA) "W:Conductivity"	Conductivity is outside of the range	• Call the "Sensor" function from the diagnostics menu to read-off the conductivity value • If necessary, clean then recalibrate the sensor	
K	HTD01CQ011	Control value measurement	OFF (power output 4...20mA) "W:Polarization"	The increase in the polarization curve is too high	• Call the "Sensor" function from the diagnostics menu to read-off the polarization curve increase value • If necessary, clean then recalibrate the sensor	
K	HTD01CQ011	Control value measurement	OFF power output 4...20mA) "W: Temperature"	The fluid temperature is outside of the range	• If necessary check the correct function of the integrated Pt1000 by measuring a fluid with a known temperature • Replace the device	
K	HTD01CQ011	Control value measurement	OFF power output 4...20mA) "M:Calib. Dat"	Due date for sensor calibration	Calibrate the conductivity sensor	
K	HTD01CQ011	Control value measurement	Incorrect display of the control value	Control value range in the controller is incorrect	Set the correct range	
K	HTD0xCT0xx	Temperature sensor			See "General" Temperature Sensor	
K	HTS01AP051	pH pump	Pump does not dispense	"Set point" (limit value) is incorrect	Adjust the "set point"	
K	HTS01AP051	pH pump	Pump does not dispense	Alkali / acid selector switch set incorrectly	Adjust the dispensing unit	
K	HTS01AP051	pH pump	Pump does not dispense	Air in the inlet line	Vent the suction hose	
K	HTS01AP051	pH pump	Pump does not dispense	Filter blockage	Thoroughly flush the filter	
K	HTS01AP051	pH pump	Pump does not dispense	Problem with suction and pressure valves	Clean valves; replace if necessary	
K	HTS01AP051	pH pump	Wire break	Defective electrical wiring, no grounding	Check electrical wiring, check the grounding	
K	HTS01AP051	pH pump	Measures incorrect pH values	Sensor aged	Recalibrate the sensor	
K	HTS01AP051	pH electrode	Measures incorrect pH values	Sensor worn	Replace the sensor	
K	HTS01AP051	pH electrode	Wire break	Ground not connected to the sensor receptacle, or defective	Check the grounding	
K	HTS01AP051	pH electrode	Measured value is incorrect (dropping)	Probe is in the sediment and measures sediment pH	Remove sediment, clean the probe	
K	HTS01AP051	pH electrode	Measured value is incorrect (dropping)	Probe is dirty, shows signs of deposits	Clean the probe. Place the probe in a glass of water then add acid to free the dirt (citric acid or "salt acid"). Swivel the probe in the fluid and then dry it	
K	HTS01AP051	pH electrode	Measured value is incorrect (dropping)	Incorrect measurement due to voltage in water, line, housing, etc.	Check the grounding	
K	HTS01AP052	pH electrode	Measured value is incorrect (dropping)	Soldering point of the wiring in the pump is bad or loose	Check the soldering point of the wiring in the pump and repair	
K	HTS01AP053	pH electrode	Measured value is incorrect (dropping)	Influence (electromagnetic) from the surroundings If the pH value drops, then fill a glass with process water, remove the probe and place it in the glass; when the pH value once more rises then electricity is effecting the measurement	Ground the probe holder, ground the lines	
K	HTS01AP051	pH electrode	Measured value is incorrect (dropping)	Defective probe	Simulation mV feed instead of the probe (50-60mV/ppm; 7ppm = 400mV)	
WASSERBEHANDLUNG						
W		Process	Lamella separator overflows	No signal from level sensor HTM01CL111	See HTM01CL111	
W		Process	Lamella separator overflows	Flow rate in the lamella separator is too high	Check and slow down the flow rate	
W		Process	Lamella separator overflows	Valve HTM01AA001 defective	See HTM01AA001	
W		Process	Lamella separator overflows	Incorrect stroke limitation, valve HTM01AA001	Check stroke limitation	
W		Process	Lamella separator overflows	Return line to condenser is blocked	Check and clean the line	
W		Process	Lamella separator overflows	Plant heavily soiled	Clean the entire plant	
W		Process	No water to the lamella separator		See Lamella Separator (HTM01AT011)	
W		Process	Sand filter overflows	No signal from level sensor	See HTM01CL131	
W		Process	Sand filter overflows	Diaphragm valve (HTM01AA031) closed manually	Switch valve to automatic mode	
W		Process	Sand filter overflows	Line from the collection cone in the sewage tank blocked	Check and clean the line	
W		Process	Sand filter overflows	Filter sand blocked	Replace sand	Beschreibung / Description
W		Process	Sand filter overflows	Filter nozzles defective	Remove the sand and replace the filter nozzles	Beschreibung / Description
W		Process	Water is not cleaned properly		See Lamella Separator (HTM01AT011)	
W		Process	Sewage tank overflows --> sewage pump HTM01AP051 does not function	No signal from level sensor	See HTM01CL151	
W		Process	Sewage tank overflows --> sewage pump HTM01AP051 does not function	Pump does not function	See HTM01AP051	

component	KKS	Component	Fault	Possible Cause	Remedy	Benutzerhandbuch
W		Process	Sewage tank overflows --> sewage pump HTM01AP051 does not function	Pump HTM01AP051 manual off	Switch the pump to automatic mode	
W		Process	Sewage tank overflows --> sewage pump in operation	Line to lamella separator blocked	Check and clean the line	
W		Process	Cleanwater tank overflows	Drain pipe blocked	Check and clean the line	
W		Process	Purging does not function	No compressed air	Check the compressed air supply, shut-off valves ...	
W		Process	Purging does not function	No compressed air	Check the pilot valve (see HTM01AA011/21)	
W		Process	Purging does not function	Pilot valve (HTM01AA011/21) closed manually	Switch valve to automatic mode	
W		Process	Purging does not function	Inlet line, pressure line or sludge pump blocked	Clean lines and the pump	
W		Process	Purging does not function	Defective sludge pump	See HTM01AP011	
W		Process	Backflush not working	No signal from level sensor HTM01CL131	See HTM01CL131	
W		Process	Backflush not working	Backflush cut-off time still active	Wait until the cut-off time has expired	
W		Process	Backflush not working	Backflush pump not working	See HTM01AP041	
W		Process	Backflush not working	Switch off backflush pump HTM01AP041 manually	Switch the pump to automatic mode	
W		Process	Backflush not working	Backflush compressor not working	See HTM01AP031	
W		Process	Backflush not working	Switch off backflush compressor HTM01AN031 manually	Switch the pump to automatic mode	
W		Process	Backflush not working	Filter sand blocked	Replace sand	
W		Process	Backflush not working	Filter nozzles defective	Remove the sand and replace the filter nozzles	
W		Process	Backflush interval, sand filter HTM01AT031 <30min	Sand HTM01KT002 very dirty/clotted	Check sand; replace!	
W		Process	Backflush interval, sand filter HTM01AT031 <30min	Dust content of flue gas >150mg/nm3	Check dust removal before condenser (cyclone, filter, etc.)	
W	HTM01AA0xx	Diaphragm valve	Outward leak at the flange connection	Connection incorrectly mountedt Seal worn	Tighten the connection and replace the seal if necessary	
W	HTM01AA0xx	Diaphragm valve	Outward leak at the connecting nut	Connection incorrectly mounted Worn o-ring	Tighten connection hand-tight or replace o-rings if necessary	
W	HTM01AA0xx	Diaphragm valve	Leak of medium at the connection between the valve body and the housing nut		• Tighten the housing nut until there is a clearance of 0.5 to 1 mm between the valve body and the housing nut • The semi-circular indicator on the housing nut with raster element must be flush to the valve body, or replace the diaphragm as per chapter "Replacing the diaphragm".	
W	HTM01AA0xx	Diaphragm valve	Leak in the seating / leak in opening	Worn diaphragm	Replace the diaphragm as per chapter "Procedure – replacing the diaphragm"	
W	HTM01AA0xx	Diaphragm valve	Unit is sluggish		• Check the spindle for wear and lubricate if necessary • replace seals and/or functional parts if necessary	
W	HTM01AA0xx	Diaphragm valve	Control medium leak		Check connections and piping system	
W	HTM01AA0xx	Diaphragm valve	Unit does not perform the specified stroke, or closes and opens		• Check the control pressure • Check function (FC, FO, DA) and corresponding connections • Check function of venting and breather line	
W	HTM01AA0xx	Diaphragm valve	Medium leak at the position indicator		Replace the spindle and piston seal as well as the diaphragm	
W	HTM01AA0xx	Diaphragm valve	Leak of control medium at the venting		Replace the spindle and piston seal	
W	HTM01AA0xx	Diaphragm valve	Diaphragm closes early		• Check the control pressure • Check function (FC, FO, DA) and corresponding connections • Check the size of the drive • If necessary, replace the number of spring packs for function FC • Check the vent hole at the intermediate element and clean if necessary • Check the chemical and mechanical reliability of the diaphragm	
W	HTM01AA0xx	Diaphragm valve	Drive no longer actuates – signs of solid freezing		Condensate has frozen • Dry control air • Seal the indicator cap with a foam rubber seal	
W	HTM01AA0xx	Solenoid valve			See "General" Solenoid Valve	
W	HTM0xAA0xxZ	Pilot valve			See "General" Solenoid Valve	
W	HTM01AA3xx	Ball tap			See "General" Ball Tap	
W	HTM01AA7x1	Nonreturn valve	Leak in the passage	Gasket damaged	Replace the seal	
W	HTM01AA7x1	Nonreturn valve	Leak in the passage	Nonreturn valve dirty	Remove and clean the nonreturn valve	
W	HTM01AA7x1	Nonreturn valve	Leak in the passage	Nonreturn valve incorrectly installed	Observe the direction of flow on the nonreturn valve	
W	HTM01AA7x1	Nonreturn valve	Outwards leak	Compression from gasket too low	Tighten the screw-in part in the nonreturn valve	
W	HTM01AA7x1	Nonreturn valve	Outwards leak	O-ring compression too low	Tighten the connecting nuts	
W	HTM01AA7x1	Nonreturn valve	Outwards leak	O-ring missing or is damaged	Replace the o-rings	
W	HTM01AA7x1	Nonreturn valve	Valve cone is jammed	Unsuitable medium	Only use permitted median. See «Georg Fischer Planning Criteria»	
W	HTM01AA7x1	Nonreturn valve	Spring malfunctions	Corroded spring	Ensure correct chemical reliability. See «Georg Fischer Planning Criteria»	
W	HTM01AN031	Backflushing compressor	Compressor not running	Motor protection switch triggered	Switch on the motor protection switch	
W	HTM01AN031	Backflushing compressor	Final pressure (max. overpressure) not reached	Leaks at the machine or in the system	Check piping and screw connections for leaks and tight seating	Kap / Chap 7.2
W	HTM01AN031	Backflushing compressor	Final pressure (max. overpressure) not reached	Lamellas are worn or damaged	Replace the lamellas	Kapitel / Chapter 7.2.2, Kapitel / Chapter 7.4
W	HTM01AN031	Backflushing compressor	Final pressure (max. overpressure) not reached	Selected drive power is too low	Use the next-higher motor power	
W	HTM01AN031	Backflushing compressor	Machine gets too hot	Surrounding temperature or inlet temperature is too high	Make sure that correct usage is observed	Kapitel / Chapter 2.3
W	HTM01AN031	Backflushing compressor	Machine gets too hot	Cooling air current is impeded	• Check surrounding conditions • Clean the ventilation slots	Kapitel / Chapter 5.1; Kapitel / Chapter 7.2
W	HTM01AN031	Backflushing compressor	Machine gets too hot	The filter cartridge from the blow-out filter is dirty	Clean / replace filter cartridge	Kapitel / Chapter 7.2.1; Kapitel / Chapter 7.4
W	HTM01AN031	Backflushing compressor	Machine gets too hot	The control valve is dirty; the permissible pressure is therefore exceeded	Clean / replace the control valve	Kapitel / Chapter 7.2; Kapitel / Chapter 7.4
W	HTM01AN031	Backflushing compressor	Machine generates unusual noise	The compressor housing is worn (chatter marks)	Repairs by the manufacturer or authorized repair shop	
W	HTM01AN031	Backflushing compressor	Machine generates unusual noise	The control valve vibrates	Replace the valve	Kapitel / Chapter 7.4
W	HTM01AN031	Backflushing compressor	Machine generates unusual noise	The lamellas are damaged	Replace the lamellas	Kapitel / Chapter 7.2.2, Kapitel / Chapter 7.4
W	HTM01AT131	Compressor intake filter		Filter is dirty	Clean the filter	
W	HTM01AP011	Sludge pump	Delivery rate is reduced, pulsation increased	Ball valve on the inlet side is blocked	Free up the ball valve	
W	HTM01AP011	Sludge pump	Piston rod is sluggish	Compressed air too dry (instrument air)	Slightly oil the air	
W	HTM01AP011	Sludge pump	Piston rod is sluggish	Temperature too high	Cool	
W	HTM01AP011	Sludge pump	Piston rod is sluggish	Compressed air dirty	Place on a filter	
W	HTM01AP011	Sludge pump	Piston rod is sluggish	Piston rod worn	Replace	

component	KKS	Component	Fault	Possible Cause	Remedy	Benutzerhandbuch
W	HTM01AP011	Sludge pump	Air in the product	Diaphragm is torn	Replace the diaphragm	
W	HTM01AP011	Sludge pump	Pump stands still after filling the line	Air pressure too low	Increase the air pressure	
W	HTM01AP011	Sludge pump	Pump stands still after filling the line	Viscosity too high	Increase the air pressure	
W	HTM01AP011	Sludge pump	Pump stands still after filling the line	Delivery height is too high	Increase the air pressure	
W	HTM01AP011	Sludge pump	Product from sound absorber	Diaphragm is torn	Replace the diaphragm	
W	HTM01AP011	Sludge pump	PTFE diaphragms are torn after a short time	Large solids in the medium	Connect a filter	
W	HTM01AP011	Sludge pump	PTFE diaphragms are torn after a short time	Compressed air opened suddenly	Connect a slow startup valve	
W	HTM01AP011	Sludge pump	Pump does not work although supplied with air	Sound absorber blocked	Clean or replace	
W	HTM01AP011	Sludge pump	Pump does not work although supplied with air	Air inlet filter blocked	Clean or replace	
W	HTM01AP011	Sludge pump	Pump does not work although supplied with air	Ball valves stick to valve seating	Release, use PTFE balls if necessary	
W	HTM01AP011	Sludge pump	Pump leaks tensioning belt	At the tensioning belt	Torn, replace	
W	HTM01AP011	Sludge pump	Pump leaks tensioning belt	Diaphragm not centred during assembly	Retension	
W	HTM01AP011	Sludge pump	Pump very loud, rattling noise	Control valve worn	Replace	
W	HTM01AP011	Sludge pump	Pump very loud, rattling noise	Excessive intake at the intake side	Insert heavy ball valves, throttle the inlet line	
W	HTM01AP011	Sludge pump	Pump is slow, stops, starts	Freezing of control valve	Use dry air. Add antifreeze to air. Use high-power sound absorber	
W	HTM01AP011	Sludge pump	Ball valves deformed	Chemical attack		
W	HTM01AP011	Sludge pump	Ball valves deformed	Mechanical attack	Change material	
W	HTM01AP001	Sludge pump	Sludge from the sludge pump too thick	Interval too long	Change the interval	
W	HTM01AP001	Sludge pump	Sludge from the sludge pump too watery	Interval too short	Change the interval	
W	HTM01AP011	Sludge pump	Insufficient suction lift	Ball valve and seating untight	Replace	
W	HTM01AP011	Sludge pump	Insufficient suction lift	Pump completely dry	Fill the inlet line	
W	HTM01AP011	Sludge pump	Rate of delivery too low	Sound absorber blocked	Clean or replace	
W	HTM01AP011	Sludge pump	Rate of delivery too low	Air inlet filter blocked	Clean or replace	
W	HTM01AP011	Sludge pump	Rate of delivery too low	Insufficient air supply	Check the feed line	
W	HTM01AP011	Sludge pump	Rate of delivery too low	Viscosity too high	Change the interval	
W	HTM01AP011	Sludge pump	Rate of delivery too low	Inlet valve closed	Open the valve	
W	HTM01AP011	Sludge pump	Rate of delivery too low	Ball valve and seating on inlet end worn	Replace seating and balls	
W	HTM01AP041	Backflushing pump			See "General" Pump	
W	HTM01AP041	Backflushing pump	Pump does not convey any medium	O-ring incorrectly seated		
W	HTM01AP051	Sewage pump			See "General" Pump	
W	HTM01AP051	Sewage pump	Pump does not convey any medium	O-ring incorrectly seated		
W	HTM01AP061	Immersion pump (return pump to K)			See "General" Pump	
W	HTM01AP071	Immersion pump (condensate pump)			See "General" Pump	
W	HTM01AT011	Lamella separator	No water feed / low level	Ball tap HTD01AA401 closed	Completely open the ball tap	
W	HTM01AT011	Lamella separator	No water feed / low level	Stroke limitation of HTM01AA001 is too limited	Readjust the stroke limitation	
W	HTM01AT011	Lamella separator	No water feed / low level	Process water pump HTD01AA401 not in operation	Check why the process water pump is not running	
W	HTM01AT011	Lamella separator	No water feed / low level	Connection line HTD01BR015 blocked	Clean the line	
W	HTM01AT011	Lamella separator	Overflows	Stroke limitation of HTM01AA001 opened too wide	Readjust the stroke limitation	
W	HTM01AT011	Lamella separator	Overflows	Level sensor (floating switch) HAM01CL111 not working	• Make sure the floating switch moves freely • Check the electrical function of the floating switch	
W	HTM01AT011	Lamella separator	Overflows	Overflow is blocked	Clean	
W	HTM01AT011	Lamella separator	Overflows	Lamellas heavily covered with sludge	Clean	
W	HTM01AT011	Lamella separator	Water is not cleaned properly	Too much dust content in boiler	Make sure the prefilter (e.g. cyclone) is working correctly (firing supplier)	
W	HTM01AT011	Lamella separator	Water is not cleaned properly	Mass flow rate over the lamella separator is too high	• Check stroke limitation of HTM01AA00 • Contact IS SaveEnergy	
W	HTM01AT031	Sand filter	Sand filter HTM01AT031 overflows	Return line HTM01BR33 to sewage tank HTM01BB051 is blocked	Clean the line	
W	HTM01AT031	Sand filter	Sand filter HTM01AT031 overflows	Level sensor (floating switch) HAM01CL131 not working	• Make sure the floating switch moves freely • Check the electrical function of the floating switch	
W	HTM01AT031	Sand filter	Sand filter HTM01AT031 overflows	Valve HTM01AA012 switches incorrectly	Check the position and the function of the balance tank HTD01CL102 level sensor	
W	HTM01AT031	Sand filter	Sand filter HTM01AT031 overflows	Sand HTM01KT002 very dirty/clotted	Check sand; replace!	Kap.... Chap....
W	HTM01AT031	Sand filter	Sand filter HTM01AT031 overflows	Backflush pump/compressor HTM01AN031 adjusted too strongly	Backflushing compressor HTM01AN031 throttled	
W	HTM01AT031	Sand filter	Sand filter HTM01AT031 overflows	Filter nozzles HTM01BN901-925 defective	Remove sand, check the nozzles	
W	HTM01AT031	Sand filter	Interval for backflush of sand filter HTM01AT031 <30 min	Sand HTM01KT002 very dirty/clotted	Check sand; replace!	Kap.... Chap....
W	HTM01CLxxx	Suspended float switches			See "General" Suspended Float Switches	
W	HTM01CLxxx	Floating switches			See "General" Floating Switches	
W	HTM01CP51x	Filter pressure controller	No water separation	Container full	Empty the container by actuating the valve	
W	HTM01CP51x	Filter pressure controller	Leak	Connections untight, device untight	Reseal, replace if necessary	
ALLGEMEIN						
K / N / W		Pump	Motors protection switch triggers	Motor overloaded	Allow the motor to cool down, search for the cause of the high load	
K / N / W		Pump	Motors protection switch triggers	Motor defective	Check the power consumption; replace the motor if necessary	
K / N / W		Pump	Increased storage temperature	Increased thrust	Clean the relief wells in the impeller Replace the wear rings	
K / N / W		Pump	Increased storage temperature	Not enough, too much or unsuitable lubricant	Add, reduce or replace lubricant	
K / N / W		Pump	Increased storage temperature	Pump overtight or resonance vibrations in the pipeline	Check pipeline connections and pump fixture; decrease the distance between the pipe clips if necessary; fix the pipelines using vibration-damping material	
K / N / W		Pump	Leak at the pump	Seal defective	Replace the seal between the spiral casing and the sealing lid	
K / N / W		Pump	Motors protection switch switches off	Transport lock not pulled out from the keyseat	Pull out	
K / N / W		Pump	Motors protection switch switches off	Pump counterpressure is lower than specified in the order	Exactly adjust the operating point	
K / N / W		Pump	Motors protection switch switches off	Motor protection switch incorrectly set	Check the setting, replace the motor protection switch	
K / N / W		Pump	Pump does not convey any medium	Contaminants in the pump	Clean	
K / N / W		Pump	Pump does not convey any medium	Return valve is blocked	Clean	
K / N / W		Pump	Pump does not convey any medium	Pump discharge nozzles blocked by contaminants	Clean	
K / N / W		Pump	Pump does not convey any medium	Pump not filled with water	Vent	
K / N / W		Pump	Pump does not convey any medium	Pump cavitates	• Check level of medium • Check intake line for obstacles	
K / N / W		Pump	Delivery height too low	Intake line or impeller blocked	Remove deposits in the pump and/or the pipelines	

component	KKS	Component	Fault	Possible Cause	Remedy	Benutzerhandbuch
K / N / W		Pump	Delivery height too low	Impermissible air or gas content in the fluid being conveyed	Callback required	
K / N / W		Pump	Delivery height too low	Wear to inside parts	Replace worn parts	
K / N / W		Pump	Delivery height too low	Incorrect direction of rotation	If direction of rotation is incorrect, check the connection of the pump / pump unit and when necessary of the switchgear	
K / N / W		Pump	Delivery height too low	Damaged rising pipeline (pipe and seal)	Replace defective rising pipe and replace seals	
K / N / W		Pump	Delivery height too low	Running on 2 phases	Replace defective fuse, check line connections	
K / N / W		Pump	Pump does not convey	Pump or pipeline not completely vented	Clean vent hole 5 B in pump housing 101	
K / N / W		Pump	Pump does not convey	Intake line or impeller blocked	Remove deposits in the pump and/or the pipelines	
K / N / W		Pump	Pump does not convey	Motor does not run because no power supply	Check electrical installation, contact the electrics works	
K / N / W		Pump	Pump does not convey	Motor winding or electrical line is defective	Switch on Service SaveEnergy	
K / N / W		Pump	Pump does not convey	The temperature monitor for winding monitoring has cut-off because the winding temperature is too high	The motor switches back on automatically after cooling down	
K / N / W		Pump	Pump does not convey	Damaged rising pipeline (pipe and seal)	Replace defective rising pipe and replace seals	
K / N / W		Pump	Pump does not convey	Running on 2 phases	Replace defective fuse, check line connections	
K / N / W		Pump	Rate of delivery too low	Pump conveys against excessive pressure	Open the shut-off valve more until the operating point is correctly adjusted	
K / N / W		Pump	Rate of delivery too low	Intake line or impeller blocked	Remove deposits in the pump and/or the pipelines	
K / N / W		Pump	Rate of delivery too low	Impermissible air or gas content in the fluid being conveyed	Callback required	
K / N / W		Pump	Rate of delivery too low	Wear to inside parts	Replace worn parts	
K / N / W		Pump	Rate of delivery too low	Incorrect direction of rotation	Check the electrical connection of the pump / pump unit and when necessary of the switchgear	
K / N / W		Pump	Rate of delivery too low	Damaged rising pipeline (pipe and seal)	Replace defective rising pipe and replace seals	
K / N / W		Pump	Rate of delivery too low	Running on 2 phases	Replace defective fuse, check line connections	
K / N / W		Pump	Rate of delivery too low	Pump sanding up, trench is dirty, feed is too low	Clean the infeed, sand trap, pump parts and nonreturn valve, empty the pit and clean	
K / N / W		Pump	Rate of delivery too low	Pipelines blocked	Clean	
K / N / W		Pump	Rate of delivery too low	Pump sucks in air	Seal the inlet line	
K / N / W		Pump	Rate of delivery too low	Pump conveys against excessive pressure	Readjust the operating point, check the plant for contamination, install a larger impeller 16) increase the speed (turbine, combustion engine)	
K / N / W		Pump	Rate of delivery too low	Airbag formation in the pipeline	Change the pipeline, attach an air bleed valve	
K / N / W		Pump	Rate of delivery too low	Pump or pipeline not completely vented or not filled	Vent or fill in	
K / N / W		Pump	Rate of delivery too low	Suction lift too high/NPSH plant (feed) too low	Correct the fluid level, completely open the shut-off valve in the intake line, change the intake line when required, if resistances in the intake line are too large, check the installed sifters/suction (inlet) opening	
K / N / W		Pump	Rate of delivery too low	Return valve is blocked	Clean	
K / N / W		Pump	Rate of delivery too low	Unsuitable conveying medium (density or specific weight)	Callback required	
K / N / W		Pump	Rate of delivery too low	The plant is untight / leaks	Check plant for leakage and repair	
K / N / W		Pump	Pump does not start	Condensate in the motor	Replace the pump	
K / N / W		Pump	Pump does not start	Insulator is defective	Replace the pump	
K / N / W		Pump	Pump does not start	Manually switched off	Set to automatic mode	
K / N / W		Pump	Pump does not start	Contaminants present (bolts, screws, chips, etc.)	Clean	
K / N / W		Pump	Pump does not start	Problems with the power supply: • no power • cable not connected or damaged • voltage is too low	Check electrical installation	
K / N / W		Pump	Pump does not start	Impeller is blocked	Remove mechanical blockage	
K / N / W		Pump	Pump does not start	Fuse triggered	Reset the fuse	
K / N / W		Pump	Pump does not start	Circuit breaker triggered / not calibrated	Check the switching level	
K / N / W		Pump	Pump does not start	Condenser too small or damaged (AC motor)	Replace the pump	
K / N / W		Pump	Pump does not start	Only 2 phases receive current (3-phase motor)	Check wiring and winding	
K / N / W		Pump	Pump does not start	Overheat or overload (unsuitable conveying medium)	Callback required	
K / N / W		Pump	Pump is turbulent or makes noises	Wear to inside parts	Replace worn parts	
K / N / W		Pump	Pump is turbulent or makes noises	Pump or pipeline not completely vented or not filled	Vent or fill in	
K / N / W		Pump	Pump is turbulent or makes noises	Suction lift too high/NPSH plant (feed) too low	Correct the fluid level, completely open the shut-off valve in the intake line, change the intake line when required, if resistances in the intake line are too large, check the installed sifters/suction (inlet) opening	
K / N / W		Pump	Pump is turbulent or makes noises	Pump counterpressure is lower than specified in the order	Exactly adjust the operating point	
K / N / W		Pump	Pump is turbulent or makes noises	Not enough, too much or unsuitable lubricant	Add, reduce or replace lubricant	
K / N / W		Pump	Pump is turbulent or makes noises	Pump overtight or resonance vibrations in the pipeline	Check pipeline connections and pump fixture; decrease the distance between the pipe clips if necessary; fix the pipelines using vibration-damping material	
K / N / W		Pump	Pump is turbulent or makes noises	Impeller imbalance	Clean the impeller, rebalance the impeller	
K / N / W		Pump	Pump is turbulent or makes noises	Rate of delivery too low	Increase minimum rate of delivery	
K / N / W		Pump	Pump is turbulent or makes noises	Pump runs in impermissible operating range (partial load/overload)	Check operating data of the pump	
K / N / W		Pump	Pump is turbulent or makes noises	Dirt / fibres in the side spaces of the impeller, rotor is sluggish	Make sure the impeller can be rotated easily, perform hydraulic cleaning if necessary	
K / N / W		Pump	Pump is turbulent or makes noises	Radial bearing in motor defective	Callback required	
K / N / W		Pump	Pump is turbulent or makes noises	Intake line or impeller blocked	Remove deposits in the pump and/or the pipelines	
K / N / W		Pump	Pump is turbulent or makes noises	Impermissible air or gas content in the fluid being conveyed	Callback required	
K / N / W		Pump	Pump is turbulent or makes noises	Incorrect direction of rotation	If direction of rotation is incorrect, check the connection of the pump / pump unit and when necessary of the switchgear	
K / N / W		Pump	Pump is turbulent or makes noises	Pump cavitates	Check incoming flow for soiling	
K / N / W		Pump	Pump is turbulent or makes noises	Pump overtight during assembly	• Callback required • Realign the pump	
K / N / W		Pump	Current / power consumption too high	Pump runs in impermissible operating range (partial load/overload)	Check operating data of the pump	
K / N / W		Pump	Current / power consumption too high	Dirt / fibres in the side spaces of the impeller, rotor is sluggish	Make sure the impeller can be rotated easily, perform hydraulic cleaning if necessary	
K / N / W		Pump	Current / power consumption too high	Radial bearing in motor defective	Callback required	
K / N / W		Pump	Current / power consumption too high	Wear to inside parts	Replace worn parts	
K / N / W		Pump	Current / power consumption too high	Incorrect direction of rotation	If direction of rotation is incorrect, check the connection of the pump / pump unit and when necessary of the switchgear	

component	KKS	Component	Fault	Possible Cause	Remedy	Benutzerhandbuch
K / N / W		Pump	Current / power consumption too high	Operating voltage too low	• Check the mains voltage • Check the line connections	
K / N / W		Pump	Current / power consumption too high	Incorrect voltage	Check electrical installation	
K / N / W		Pump	Current / power consumption too high	Windings are defective	Replace	
K / N / W		Pump	Current / power consumption too high	Motor only runs on 2 phases instead of 3 (3-phase motor)	Check the wiring	
K / N / W		Pump	Current / power consumption too high	Unsuitable conveying medium	Callback required	
K / N / W		Pump	Current / power consumption too high	Incorrect impeller diameter	Callback required	
K / N / W		Pump	Current / power consumption too high	Pump is defective	Replace	
K / N / W		Pump	Current / power consumption too high	Pump starts too often	Callback required	
K / N / W		Pump	Overheating / Overload	Conveying medium temperature is too high	Callback required	
K / N / W		Pump	Overheating / Overload	Pump starts too often	Callback required	
K / N / W		Pump	Overheating / Overload	Incorrect voltage connected	Check electrical installation	
K / N / W		Pump	Overheating / Overload	Pump is defective	Replace	
K / N / W		Pump	Overheating / Overload	Axial bearing damaged / seized	Callback required	
K / N / W		Pump	Overheating / Overload	Insufficient protection in the control cabinet (applies to motors without internal protection, see 2.3)	Check fuse and adjust if necessary, callback required	
K / N / W		Pump	Overheating / Overload	Insufficient aeration of the motor	Increase speed,	
		Pump	Overheating / Overload	Insufficient aeration of the motor	Clean the cooling fins, check the fan impeller	
K / N / W		Pump	Overheating / Overload	Environmental temperature too high	Allow the motor to cool down	
		Pump	Overheating / Overload	Environmental temperature too high	Check and lower the room temperature	
K / N / W		Pump	Overheating / Overload	Pump or pipeline not completely vented or not filled	Vent or fill in	
K / N / W		Pump	Overheating / Overload	Suction lift too high/NPSH plant (feed) too low	Correct the fluid level, completely open the shut-off valve in the intake line, change the intake line when required, if resistances in the intake line are too large, check the installed sifters/suction (inlet) opening	
K / N / W		Pump	Motor overload	Running on 2 phases	• Replace defective fuse • Check electrical line connections	
K / N / W		Pump	Motor overload	Higher density or higher viscosity of conveying medium than specified in the order	Callback required	
K / N / W		Pump	Motor overload	Transport lock not pulled out from the keyseat	Pull out	
K / N / W		Pump	Motor overload	Pump counterpressure is lower than specified in the order	Exactly adjust the operating point	
K / N / W		Solenoids	Valve does not open/close, or not completely	Electrical supply NOK	Check power supply and connection	
K / N / W		Solenoids	Valve does not open/close, or not completely	Water pressure too high	Reduce the pressure in the line << 10 bar	
K / N / W		Solenoids	Valve does not open/close, or not completely	Mechanically blocked	Clean line and valve	
K / N / W		Solenoids	Valve does not close, or not completely	Return spring is defective	Replace the pilot valve	
K / N / W		Solenoids	Valve does not close, or not completely	Soiling in the valve body	Clean or replace valve body	
K / N / W		Solenoids	Valve does not close, or not completely	Manual emergency actuation released	Release manual emergency actuation	Kap / Chap 11.3
K / N / W		Solenoids	Valve controls incorrectly	Medium pressure too high / too low	Check medium pressure	Kap / Chap 6
K / N / W		Solenoids	Valve controls incorrectly	Connections untight	Check connections	Kap / Chap 11.1
K / N / W		Ball tap	Medium flows out	Untight	Replace	
K / N / W		Ball tap	Medium flows out	Faulty installation	Install correctly	
K / N / W / E		Temperature sensor	No temperature transmitted	Electrical wiring is faulty	Connect correctly	
K / N / W / E		Temperature sensor	No temperature transmitted	Sensor defective	Replace	
K / N / W / E		Temperature sensor	Temperature -50+C	Wire break	Check wiring, replace sensors if necessary	
K / N / W / E		Temperature sensor	Incorrect temperature is displayed	Temperature range setting in the controller is incorrect	Set the correct range	
K / N / W		Floating switches	Does not switch	Electrical wiring is faulty	Connect correctly	
K / N / W		Floating switches	Does not switch	Soiled	Clean	
K / N / W		Floating switches	Does not switch	Switch is defective	Replace	
K / N / W / S		Suspended float switches	Does not switch	Electrical wiring is faulty	Connect correctly	
K / N / W / S		Suspended float switches	Does not switch	Switch is defective	Replace	
K / N / W / S		Suspended float switches	Does not switch	Floater has got caught	Uncover the floater	
K / N / W / E		Compensator	Leak	Loose screw connection	Tighten the screws	
K / N / W / E		Compensator	Leak	Wear	Replace	
K / N / W / E		Compensator	Leak	Brittleness due to excessive temperature	Callback required, replace	
K / N / W / E		Compensator	Leak	Brittleness due to composition of process water	Callback required, replace	
B		Bypass flap	Flap does not move	No compressed air, or insufficient	Check compressed air supply, check solenoid valve	
B		Bypass flap	Flap does not move	Controller to manual operation	Switch to automatic mode	
B		Bypass flap	Flap does not move	Deposits in the flap	Clean the flap	
B		Bypass flap	Flap does not move	Damper blade grazes	Realign the damper blade	
B		Bypass flap	Flap does not move	Underpressure of flue gas fan too high	Check the settings	
B		Bypass flap	Limit switch cannot be reached	Dirt / contamination	Clean the flap	
B		Bypass flap	Limit switch cannot be reached	End position incorrect	Check the end position	