

Detailed Fault Codes for Vitodens 200-W and 222-F (11/2017)

Fault Code	Detailed Code	System Behavior	Cause of Problem	Corrective Measures
30	140	Burner blocked	Short circuit on boiler water temperature sensor	Check the boiler water temperature sensor.
38	140	Burner blocked	Boiler water temperature sensor cable broken	Check the boiler water temperature sensor.
B0	141	Burner blocked	Flue gas temperature sensor shorted out	Check flue gas temperature sensor.
B8	141	Burner blocked	Flue gas temperature sensor cable broken	Check flue gas temperature sensor.
E1	202	Burner in fault mode	Ionization current too high during calibration	Check gap between ionization electrode and burner gauze assembly. In open flue mode, prevent very dusty conditions for the combustion air. Press reset button R.
E2	201	Burner in fault mode	Heating water flow rate too low during calibration.	Ensure adequate circulation volume. Check boiler pump flow. Remove scaling, blockage. Press reset button R.
E3	204	Burner in fault mode	Heat transfer too low during calibration. Temperature limiter caused shutdown.	Ensure adequate heat transfer. Press reset button R.
E5	226	Burner blocked	Fault flame amplifier	Replace the control unit.
E7	192	Burner in fault mode	Ionization current too low during calibration	Check ionization electrode: - Distance to burner gauze assembly. - Contamination of electrode. - Connecting lead and plug-in connections. Check flue system; remedy flue gas recirculation if required. Press reset button R.
E8	189	Burner in fault mode	The ionization current lies outside the permissible range	Check gas supply (gas pressure and gas flow limiter), gas train and connecting lead. Check allocation of gas type. Check ionization electrode: - Distance to burner gauze assembly. - Contamination of electrode. Press reset button R.
EA	193	Burner in fault mode	The ionization current lies outside the permissible range during calibration (deviation from previous level too great)	Check flue system; remedy flue gas recirculation if required In open flue mode, prevent very dusty conditions for the combustion air. Press reset button R. Following several unsuccessful reset attempts, replace boiler coding card and press reset button R.
EB	194	Burner in fault mode	Repeated flame loss during calibration	Check gap between ionization electrode and burner gauze assembly. Check allocation of gas type. Check flue system; remedy flue gas recirculation if required. Press reset button R.

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EC	67 or 195	Burner in fault mode	Parameter fault during calibration	Press reset button R or Replace boiler coding card and press reset button R.
ED	191	Burner in fault mode	Internal fault	Replace control unit.
EE	132	Burner in fault mode	At burner start, flame signal is missing or too weak	Check gas supply (gas pressure and gas regulator). Check gas train. Check ionization electrode and connecting cable. Check ignition: - Connecting leads to ignition module and ignition electrode. - Ignition electrode gap and contamination. Check condensate drain. Press reset button R.
EF	138	Burner in fault mode	Flame is lost immediately after it has built (during the safety time)	Check gas supply (gas pressure and gas regulator). Check flue gas/ventilation air system for flue gas recirculation. Check ionization electrode (replace if required): - Distance to burner gauze assembly. - Contamination of electrode. Press reset button R.
F1	135	Burner in fault mode	Maximum flue gas temperature exceeded 230°F (110°C) limit.	Check heating system fill level. Bleed air from system. Check circulation pump. Check boiler water temperature sensor and cable. Press reset button R after vent system has cooled down.
F2	129	Burner in fault mode	Fixed high limit switch open (activated)	Check heating system fill level. Check the circulation pump. Bleed air from the system. Check fixed high limit switch and connecting cables. Press reset button R.
F3	139	Burner in fault mode	Flame signal already present at burner start	Check the ionization electrode and connecting cable. Press reset button R.
F8	148	Burner in fault mode	Gas valve closes too late	Check the gas valve. Check both control wiring/ connections. Press reset button R.
F9	151 or 152	Burner in fault mode	Fan speed too low during burner start	Check the fan, the fan cables and power supply. Check the fan control. Press reset button R.
FA	154	Burner in fault mode	Fan not at standstill	Check the fan, the fan connecting cables and fan control. Check the fan control. Press reset button R.
FC	190	Burner in fault mode	Gas valve faulty or faulty modulation valve control; or vent system blocked	Check the gas valve. Check the vent system. Press reset button R.

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FD	227	Burner in a fault state and additional fault B7 is displayed	Boiler coding card is missing	Insert the boiler coding card. Press reset button R. Replace control unit if fault persists.
FE	158, 159, 162 or 225	Burner in fault mode	Damaged or incorrect boiler coding card or main PCB	Press reset button R. If the fault persists, check the boiler coding card or replace it or the control unit.
FF	224	Burner in fault mode	Internal fault or reset button R blocked	Restart the equipment. Replace the control unit if the equipment will not restart.
N/A	2	Burner in hold/wait state, boiler not displaying fault; refer to coding address 38:XX	Gas supply - no/low gas pressure detected	Check gas supply pressure
	3		No boiler water circulation detected	Check boiler water flow
	5		Flame failure during stabilization	Check ionization electrode
	6		Boiler temperature has exceeded the monitoring limit	Check boiler temperature sensor
	8		Flue gas temperature has exceeded the monitoring limit	Check flue gas temperature sensor
	29		Open circuit at terminals 1 and L on Multi terminal of the power pump module.	Check connection at terminals 1 and L (jumper or installed safety equipment of the Multi terminal of the power pump module)
	33		Power supply voltage is below minimal operating level; internal fuse failure.	Check power, replace control