

# EBERSPÄCHER HYDRONIC S3 D5E CL ERROR FAULT CODES MANUAL



These Fault codes are valid for the following engine-independent water heaters:

Heaters for petrol	Order No.	→ 05/2020	05/2020 →	09/2020 →
B4E – 12 V CS		20.2007.05.0000	20.2050.05.0000	
B5E – 12 V CS		20.2008.05.0000	20.2051.05.0000	
<b>Heaters for diesel</b>				
D4E – 12 V CS		25.2933.05.0000	25.2992.05.0000	
D5E – 12 V CS		25.2934.05.0000	25.2993.05.0000	
D5L – 24 V CS		25.2696.05.0000		25.3009.05.0000
D6L – 24 V CS		25.2745.05.0000		25.2672.05.0000
D6L – 24 V CS ADR		25.2977.05.0000		25.3004.05.0000
<b>Heaters for diesel</b>				
with inlet pressure resistant metering pump				
D4E – 12 V CS VDP		25.2943.05.0000	25.2995.05.0000	
D5E – 12 V CS VDP		25.2942.05.0000	25.2994.05.0000	

Official Eberspächer technical documentation for the Hydronic S3. Includes a comprehensive list of diagnostic trouble codes (P-Codes), fault interpretation definitions, and lockout clearing procedures for the water heater.

## 2.5 Fault code table

Fault code P000...	Error description	Cause ▪ Remedial action	Error class for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
<b>P000100</b> <b>P000101</b> <b>P000102</b>	Water outlet sensor – Interruption – Short circuit – Short circuit after Ub+	<ul style="list-style-type: none"> <li>▪ Check the water outlet sensor.</li> <li>– Check cables for continuity, short circuit and damage.</li> <li>– Unplug connector XB4, measure resistance between cable RD (chamber 9) and cable RD (chamber 10).</li> <li>– Measured values <a href="#">see page 18</a>, deviating values → renew lead harness of heater.</li> </ul>	<b>1: Service</b>
<b>P00010A</b>	Cold air – timeout	The combustion chamber has not cooled sufficiently for a restart. <ul style="list-style-type: none"> <li>▪ Check whether hot combustion air is drawn in. If not → check flame sensor, see <a href="#">Fault code P000120</a> and <a href="#">Fault code P000121</a>.</li> </ul>	<b>1: Service</b>
<b>P000110</b> <b>P000111</b> <b>P000112</b>	Water inlet sensor – Interruption – Short circuit – Short circuit after Ub+	<ul style="list-style-type: none"> <li>▪ Check the water inlet sensor.</li> <li>– Check cables for continuity, short circuit and damage.</li> <li>– Unplug connector XB4, measure resistance between cable BU (chamber 5) and cable BU (chamber 6).</li> <li>– Measured values <a href="#">see page 18</a>, deviating values → renew lead harness of heater.</li> </ul>	<b>1: Service</b>
<b>P000114</b>	Possible risk of overheating (implausible signal)  <b>Note!</b> Fault code P000114 is only displayed if <ul style="list-style-type: none"> <li>▪ the heater is in operation</li> <li>▪ Temperature reached at water outlet sensor at least 80 °C.</li> </ul>	Too large temperature difference between the water inlet and water outlet sensor. <ul style="list-style-type: none"> <li>▪ For remedial action, see <a href="#">Fault code P000115</a>.</li> <li>▪ Check the water inlet sensor.</li> <li>– Unplug connector XB4, measure resistance between cable BU (chamber 5) and cable BU (chamber 6).</li> <li>– Measured values <a href="#">see page 18</a>, deviating values → renew lead harness of heater.</li> </ul>	<b>1: Service</b>
<b>P000115</b>	Overheating – software threshold exceeded	Temperature at the water outlet sensor >125 °C. <ul style="list-style-type: none"> <li>▪ Check water circuit for leaks (heater controller in warm position)</li> <li>▪ If non-return valve / thermostat in the water circuit, check the flow direction.</li> <li>▪ Check water throughput rate.</li> <li>▪ Vent water circuit.</li> <li>▪ Check the water outlet sensor               <ul style="list-style-type: none"> <li>– Check cables for continuity, short circuit and damage.</li> <li>– Unplug connector XB4, measure resistance between cable RD (chamber 9) and cable RD (chamber 10).</li> <li>– Measured values <a href="#">see page 18</a>, deviating values → renew lead harness of heater.</li> </ul> </li> <li>▪ Check water pump, see <a href="#">Fault code P000253</a> to <a href="#">Fault code P000258</a>.</li> </ul>	<b>5: Water Circuit or Pump</b>

Fault code P000...	Error description	Cause <ul style="list-style-type: none"> <li>▪ Remedial action</li> </ul>	Error class for control elements TP7.1: <ul style="list-style-type: none"> <li>▪ EasyStart Web</li> <li>▪ EasyStart Pro</li> </ul>
P000116	Overheating – hardware threshold exceeded	Temperature at the water outlet sensor >130 °C. <ul style="list-style-type: none"> <li>▪ For remedial action, see <a href="#">Fault code P000115</a>.</li> <li>▪ Check the water outlet sensor.               <ul style="list-style-type: none"> <li>– Check cables for continuity, short circuit and damage.</li> <li>– Unplug connector XB4, measure resistance between cable RD (chamber 9) and cable RD (chamber 10).</li> <li>– Measured values <a href="#">see page 18</a>, deviating values → renew lead harness of heater.</li> </ul> </li> </ul>	5: Water Circuit or Pump
P00011A	Operating lock-out – too many overheating events detected	The control box is locked due to too frequent consecutive overheating ( <a href="#">Fault code P000114</a> , <a href="#">Fault code P000115</a> ). <ul style="list-style-type: none"> <li>▪ For remedial action, see <a href="#">Fault code P000114</a>, <a href="#">Fault code P000115</a>.</li> <li>▪ Unlock control box, <a href="#">see page 7</a>.</li> </ul>	6: Overheat. Heater locked
P000120 P000121 P000122	Flame sensor <ul style="list-style-type: none"> <li>– Interruption</li> <li>– Short circuit</li> <li>– Short-circuit to Ub+</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check flame sensor.               <ul style="list-style-type: none"> <li>– Check cable for continuity, short circuit and damage.</li> <li>– Unplug connector XB4, measure resistance between cable BN (chamber 7) and cable BN (chamber 8).</li> <li>– Measured values <a href="#">see page 18</a>, deviating values → renew lead harness of heater.</li> </ul> </li> <li>▪ Next display <a href="#">Fault code P000120</a>, <a href="#">Fault code P000121</a> → Renew control box, see repair step 1, <a href="#">see page 15</a>.</li> </ul>	1: Service
P000125 P000126	Flame cutout from start process Flame cutout within the control range 0% – 25%	<ul style="list-style-type: none"> <li>▪ Check exhaust and combustion air system.</li> <li>▪ Check fuel quantity and fuel supply, <a href="#">see page 22</a>.</li> <li>▪ Check flame sensor, see <a href="#">Fault code P000120</a> and <a href="#">Fault code P000121</a>.</li> </ul>	1: Service
P000127	Flame cutout within the control range 25% – 50%		
P000128	Flame cutout within the control range 50% – 75%		
P000129	Flame cutout within the control range 75% – 100%		
	 <b>Note!</b> In case of flame cutout during the start phase or in normal operation the heater is restarted (max. 5 times). If the restart was successful, the fault code display is deleted.		
P00012A	Unsuccessful start procedure	<ul style="list-style-type: none"> <li>▪ Check exhaust and combustion air system.</li> <li>▪ Check fuel quantity and fuel supply, <a href="#">see page 22</a>.</li> <li>▪ Renew the fuel filter.</li> <li>▪ Clean the fuel filter in the connection socket of the metering pump.</li> </ul>	4: Fuel Supply or Pump
P00012B	Operation inhibit, too many unsuccessful start procedures	Following five unsuccessful start attempts the control box is locked. <ul style="list-style-type: none"> <li>▪ Unlock control box, <a href="#">see page 7</a>.</li> <li>▪ Check fuel quantity and fuel supply, <a href="#">see page 22</a>.</li> </ul>	1: Service

Fault code P000...	Error description	Cause <ul style="list-style-type: none"> <li>▪ Remedial action</li> </ul>	Error class for control elements TP7.1: <ul style="list-style-type: none"> <li>▪ EasyStart Web</li> <li>▪ EasyStart Pro</li> </ul>
P000220 P000221 P000222	Electric motor – interruption Electric motor – short circuit Electric motor – short circuit downstream of +Ub or transistor error	<ul style="list-style-type: none"> <li>▪ Visual inspection of electric motor / control unit (contacting).</li> <li>▪ Check electric motor for dirt / corrosion, clean if necessary.</li> <li>▪ Check blower wheel for blockage, remove blockage if necessary.</li> <li>▪ Replace electric motor if necessary.</li> </ul>	1: Service
P000223 P000224	Electric motor – blocking Electric motor – current input too high	<ul style="list-style-type: none"> <li>▪ Impeller blocked (frozen, soiled, sluggish, ...).</li> <li>▪ Remove blockage. <ul style="list-style-type: none"> <li>– Check electric motor for smooth and easy running by turning the impeller manually.</li> </ul> </li> <li>▪ Next display <a href="#">Fault code P000223</a> / <a href="#">Fault code P000224</a> → renew the blower, see repair step 7, <a href="#">Page 19</a>.</li> </ul>	1: Service
P000250 P000251	Water pump – interruption Water pump – short circuit	<ul style="list-style-type: none"> <li>▪ Check lead harness of the water pump: <ul style="list-style-type: none"> <li>– Unplug connector -XB3 at the heater</li> <li>– Unplug connector -XB8/2 at the water pump.</li> <li>– Check cable for continuity, short circuit and damage.</li> <li>– Lead harness of the water pump ok → renew the water pump.</li> </ul> </li> </ul>	5: Water Circuit or Pump
P000252	Water pump - short circuit downstream of +Ub or transistor error	<ul style="list-style-type: none"> <li>▪ Unplug connector -XB8/2 at the water pump. <ul style="list-style-type: none"> <li>– Display <a href="#">Fault code P000250</a> Water pump defective → renew water pump.</li> </ul> </li> </ul>	5: Water Circuit or Pump
P000253	Water pump – blocking	<ul style="list-style-type: none"> <li>▪ Water hoses laid free from kinks?</li> </ul>	5: Water Circuit or Pump
P000254	Water pump – overcurrent cutout	<ul style="list-style-type: none"> <li>▪ Water pump / water circuit dirty?</li> </ul>	5: Water Circuit or Pump
P000255	Water pump – speed below minimum	<ul style="list-style-type: none"> <li>▪ Water pump / water circuit dirty?</li> </ul>	5: Water Circuit or Pump
P000256	Water pump – dry running	<ul style="list-style-type: none"> <li>▪ Check the coolant liquid level in the water circuit.</li> <li>▪ Vent the water pump / water circuit.</li> </ul>	5: Water Circuit or Pump
P000257	Water pump – overheating	<ul style="list-style-type: none"> <li>▪ Water pump ambient temperature too high.</li> <li>▪ Position the water pump at an adequate distance from hot vehicle parts.</li> </ul>	5: Water Circuit or Pump
P000258	ADR water pump – Undervoltage / Overvoltage	<ul style="list-style-type: none"> <li>▪ Check lead harness of the water pump: <ul style="list-style-type: none"> <li>– Unplug connector -XB3 at the heater</li> <li>– Unplug connector -XB8/2 at the water pump.</li> <li>– Check cable for continuity, short circuit and damage.</li> <li>– Lead harness of the water pump ok → renew the water pump.</li> </ul> </li> </ul>	5: Water Circuit or Pump
P000259	ADR water pump / vehicle blower – Short circuit	<ul style="list-style-type: none"> <li>▪ Check the cables to the water pump and to the vehicle blower for continuity, short circuit and damage.</li> <li>▪ Check the coolant circuit.</li> <li>▪ Check blower relay.</li> </ul>	5: Water Circuit or Pump
P000260	Universal output Interruption	<ul style="list-style-type: none"> <li>▪ Check cable for continuity and damage.</li> <li>▪ If necessary, check coding for universal outlet.</li> </ul>	1: Service
P000261	Vehicle blower – short circuit	<ul style="list-style-type: none"> <li>▪ Check electric motor cover for damage and correct fit. <ul style="list-style-type: none"> <li>– Electric motor cover ok → renew blower relay -K1.</li> </ul> </li> </ul>	1: Service

Fault code P000...	Error description	Cause <ul style="list-style-type: none"> <li>▪ Remedial action</li> </ul>	Error class for control elements TP7.1: <ul style="list-style-type: none"> <li>▪ EasyStart Web</li> <li>▪ EasyStart Pro</li> </ul>
P000316	Insufficient heat dissipation via the coolant	Too many consecutive short heating mode operations. <ul style="list-style-type: none"> <li>▪ Check coolant circuit</li> </ul>	5: Water Circuit or Pump
P000330	Control box defective	<ul style="list-style-type: none"> <li>▪ Replace control box, see repair step 1, <a href="#">Page 15</a></li> </ul>	1: Service
P000331	Control box defective	<ul style="list-style-type: none"> <li>▪ Replace control box, see repair step 1, <a href="#">Page 15</a></li> </ul>	1: Service
P000332	Control box defective	<ul style="list-style-type: none"> <li>▪ Replace control box, see repair step 1, <a href="#">Page 15</a></li> </ul>	1: Service
P000342	Invalid configuration	<ul style="list-style-type: none"> <li>▪ 12V / 24V: Too many CAN components connected. Check the configuration.</li> <li>▪ 24V ADR: Use one CAN control unit only, check the connection to the control unit if necessary.</li> </ul>	1: Service
P000394	ADR button – Short circuit	<ul style="list-style-type: none"> <li>▪ Check the cable and button for continuity, short circuit, damage. Replace if necessary.</li> </ul>	1: Service
P000500	Fault memory entry ErrorState_GSC. Fault response: Heating or ventilation mode is continued.	<ul style="list-style-type: none"> <li>▪ Withdrawal of the active request (fault remains active as long as heating or diagnosis request still exists).</li> <li>▪ Delete fault memory.</li> </ul>	0: No message
P000A00	Communication is ended by the heater. EasyFan does not respond to the coded number of messages.	<ul style="list-style-type: none"> <li>▪ Reset the fault by withdrawing the active request (fault remains active as long as heating or diagnosis request exists).</li> <li>▪ Delete fault memory.</li> </ul>	0: No message
P000E01	Runtime limit exceeded	<ul style="list-style-type: none"> <li>▪ Coded runtime end reached.</li> </ul>	1: Service