TROUBLESHOOTING GUIDE (HEMOCUE 301)

Error code	Explanation	Action
The analyzer	May be a temporary fault.	Turn off the analyzer and turn it on again after 30 seconds.
shows an error		Take a new microcuvette and repeat the measurement. If the
code		problem continues, see specific error code below.
E00	No stable endpoint of the measurement is	1a. Check the expiration date for the microcuvettes.
	found within the time range.	1b. Take a new microcuvette and repeat the measurement.
	1. The cuvette is faulty	2. The analyzer needs service. Contact the distributor.
	2. The circuit board is out of order.	
E01-E05	1. Dirty optronic unit or faulty electronics or	1a. Turn off the analyzer and clean the optronic unit.
	optronic unit.	1b. The analyzer needs service. Contact the distributor.
E06	1. Unstable blank value. The analyzer might	1.Turn off the analyzer and allow to reach room
	be cold.	temperature. If the problem continues, the analyzer needs
		service. Contact the distributor.
E07	1. The battery power is too low.	1a. The batteries need to be replaced. Turn off the analyzer
		and replace the batteries, 4 type AA.
		1b. Use the power adapter.
E08	The absorbance is too high.	1a. Check that the analyzer and microcuvettes are used
	1. Light blocking item in the cuvette holder.	according to the HemoCue Hb 301 operating manual and
	1. Light blocking item in the cuvette holder.	instructions for use.
		1b. The analyzer needs service. Contact the distributor.
E10-E30	1. Dirty optronic unit or faulty electronics or	1a. Turn off the analyzer and clean the optronic unit.
L10-L30	optronic unit.	1b. The analyzer needs service. Contact the distributor.
E40	1. The cuvette holder is not replaced properly	1. Make sure that the cuvette holder is replaced properly.
C40	after cleaning.	 2. Turn off the analyzer and clean the optronic unit.
	2. Dirty optronic unit.	3. Only use HemoCue Hb 301 microcuvettes in the HemoCue
	3. The microcuvette is not a HemoCue Hb 301	
		Hb 301 Analyzer.
	microcuvette.	4. Take a new microcuvette and repeat the measurement.
544 40	4. The microcuvette is damaged.	1. Clean the entropic unit using the Upper Cue Clean on The
E41-49	1. The optronic unit has been scratched due	1. Clean the optronic unit, using the HemoCue Cleaner. The
	to incorrect maintenance.	analyzer needs service. Contact the distributor.
	2. Hardware error.	2. The analyzer needs service. Contact the distributor.
ннн	1.Measured value exceeds 25.6 g/dL (256 g/L,	
	15.9 mmol/L)	
No characters	1. The analyzer is not receiving power.	1a. Check that the power adapter is connected to the
on the display	2.I f on battery power, the batteries need to	analyzer and the AC power supply.
	be replaced.	1b. Check that the cable is not damaged.
	3. The display is out of order.	2. Turn off the analyzer and replace the batteries, 4 type AA.
		3. The analyzer needs service. Contact the distributor.
The display	1. The display is out of order.	1. The analyzer needs service. Contact the distributor.
contains	2. The microprocessor is out of order.	2. The analyzer needs service. Contact the distributor.
erroneous		
characters		
The display	This function is for manufacturing use only	1. Remove and replace all cables and/or batteries, and
shows "FIR"		restart.
		2. The analyzer needs service. Contact the distributor.
The display	1. The batteries need to be replaced.	1. Turn off the analyzer and replace the batteries, 4 type AA.
shows "battery	2. If on AC power, the power adapter or the	2a. Check that the power adapter is properly connected and
picture"	circuit board is out of order.	working.
		2b. The analyzer needs service. Contact the distributor.
The display	1. The cuvette holder sensor is out of order.	1. The analyzer needs service. Contact the distributor.
does not switch		

from 'timer symbol' and "Hb" to three flashing dashes and 'hemocuvette symbol' (ready for measuring) Measurement	1. The microcuvettes are beyond their	1. Check the expiration date and the storage conditions of
on control	expiration date, damaged or have been	the microcuvettes.
materials are	improperly stored.	2. Remeasure the control with a new microcuvette.
out of range-	2. The optical eye of the microcuvette is	3. Check the expiration date and the storage conditions of
either too high	contaminated.	the control. Remeasure the control with a new microcuvette.
or too low	3. The controls are beyond their expiration dates or have been improperly stored.	If the problem continues, contact the manufacturer of the control.
	4. The control has not been mixed properly	4. Make sure that the control is mixed properly and at room
	and/or is not at room temperature.	temperature. If the problem continues, contact the
	5. The microcuvette has not been placed in	manufacturer of the control.
	the analyzer within 40 seconds of filling.	5. Remeasure the control with a new microcuvette.
	6. Air bubbles in the microcuvette.	6. Check the microcuvette for air bubbles. Remeasure the
	7. The optronic unit is dirty.	control with a new microcuvette.
	8. The control is not suitable for use with the	7. Clean the optronic unit.
	HemoCue Hb 301 system.	8. Contact the distributor for control information.
	9. The calibration of the analyzer has been changed.	9. The analyzer needs service. Contact the distributor.
Measurement	1. Improper sampling technique.	1. Check the expiration date and the storage conditions of
on patient	2. The microcuvettes are beyond their	the microcuvettes.
samples are	expiration date, damaged or have been	2. Remeasure the sample with a new microcuvette.
higher or lower	improperly stored.	3. Check the microcuvette for air bubbles. Remeasure the
than	3. The optical eye of the microcuvette is	sample with a new microcuvette.
anticipated	contaminated.	4. Clean the optronic unit.
	4. Air bubbles in the microcuvette.	5. The analyzer needs service. Contact the distributor.
	5. The optronic unit is dirty.	
	6. The calibration of the analyzer has been	
	changed.	