

Error list V 3.5.1.0. - 00 released 9.03.2016						
What's new?	Error-ID	Error-ID	Error-ID	Error-ID		
	User - Message					
		CAN Bus				
			Hardware			
				Software		
					Service-Message and Troubleshooting guide	
					User-Message	
				1	Error only in MS Windows simulation	Please restart cyclor. If error persists, please call service.
			6		Please replace mainboard	Please restart cyclor. If error persists, please call service.
			7		Please replace mainboard	Please restart cyclor. If error persists, please call service.
				92	Error only in MS Windows simulation	Please restart cyclor. If error persists, please call service.
		100			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		101			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		102			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		103			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		104			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		105			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		106			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		107			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		108			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		109			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		110			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		111			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		112			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		113			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		114			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		115			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		116			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		117			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		118			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		119			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
		120			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
				150	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				151	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				200	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				201	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				202	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				203	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				204	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			205		Update to V3.4.0.0 first. From SN 63xxDM407586 for nexus and from 6338DM107645 Nexus X2 new Thermoblocks are build in. Please check if a new Thermoblock is build in. If not replace Thermoblock. If error persists, replace Cable Nexus III.	Please restart cyclor. If error persists, please call service.
				206	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				207	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			208		Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			209		Failure reading block temperature sensor. Please replace Cable Nexus III. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			210		Checksum error in block EEPROM. Please replace Cable Nexus III. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			211		Checksum error in block EEPROM. Please replace Cable Nexus III. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			212		Checksum error in block EEPROM. Please replace Cable Nexus III. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			213		Failure accessing block EEPROM. Please replace Cable Nexus III. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			214		Failure accessing block EEPROM. Please replace Cable Nexus III. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			215		Failure accessing DAC. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.

			216		Block over-temperature. Please replace Thermoblock. If error persists, replace Cable Nexus III. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			217		Block under-temperature. Please replace Thermoblock. If error persists, replace Cable Nexus III. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			218		Invalid block temperature. Please replace Thermoblock. If error persists, replace Cable Nexus III. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			219		Invalid block temperature. Please replace Thermoblock. If error persists, replace Cable Nexus III. If error persists, replace PCB Mainboard.	Please observe the thermoblock loading recommendations presented in the manual. If the error still persists call Eppendorf Service.
			220		Invalid block temperature. Please replace Thermoblock. If error persists, replace Cable Nexus III. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			221		Failure while contacting Thermoblock monitoring circuit. Please replace Cable Nexus III. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
				300	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				301	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				302	Update to V3.4.0.0 first. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				400	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				401	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				402	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				403	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				404	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			405		Failure reading block temperature sensor. Please replace Cable Nexus III. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
				406	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				407	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			408		Failure setting fan PWM. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			409		Failure reading block temperature sensor. Please replace Cable Nexus III. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
				410	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			411		Fan speed not ok (software monitoring). Please replace fan. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			412		Heat sink over-temperature. Do not operate cyclor above 35C (95F) ambient temperature. Check heat sink temperature with service function. If error persists, please replace Thermoblock. If error persists, replace Cable Nexus III.	Please restart cyclor. If error persists, please call service.
			413		Heat sink under-temperature. Do not operate cyclor below 15C (59F) ambient temperature. Check heat sink temperature with service function. If error persists, please replace Thermoblock. If error persists, replace Cable Nexus III.	Please restart cyclor. If error persists, please call service.
			414		Interference in heat sink temperature sensing. Please replace Thermoblock.	Please restart cyclor. If error persists, please call service.
				500	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				501	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				502	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				503	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			504		Failure reading lid temperature sensor. Please replace Cable Nexus III. If error persists, replace heating frame. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
				505	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				506	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			507		Failure accessing DAC. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			508		Failure accessing lid EEPROM. Please replace Cable Nexus III. If error persists, replace heating frame. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			509		Failure accessing lid EEPROM. Please replace Cable Nexus III. If error persists, replace heating frame. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
				510	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				511	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			512		Checksum error in lid EEPROM. Synchronize firmware and restart twice. If error persists, replace Cable Nexus III. If error persists, replace heating frame. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.

			613		Missing watchdog trigger from microcontroller (hardware monitoring). Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			614		Power supply failure (hardware monitoring). Please replace power supply 633x. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			615		Lid over-temperature (hardware monitoring). Please replace Cable Nexus III. If error persists, replace heating frame. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
		616			External CAN bus voltage failure (hardware monitoring). Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			617		Microcontroller triggered switch-off (hardware monitoring). Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			618		VDDBR voltage missing on PCB Mainboard (hardware monitoring). Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			619		TBU voltage missing (hardware monitoring). Please replace Cable Nexus III. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			620		TPS1 voltage missing on PCB Mainboard (hardware monitoring). Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			621		TPS2 voltage missing on PCB Mainboard (hardware monitoring). Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			622		Failure in safety circuits. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
				623	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			624		Spike detected (hardware monitoring). In case of frequent occurrence please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			625		Spike detected (hardware monitoring). In case of frequent occurrence please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			626		Spike detected (hardware monitoring). In case of frequent occurrence please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			627		Spike detected (hardware monitoring). In case of frequent occurrence please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			628		Spike detected (hardware monitoring). In case of frequent occurrence please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			629		Spike detected (hardware monitoring). In case of frequent occurrence please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			630		Spike detected (hardware monitoring). In case of frequent occurrence please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			631		Spike detected (hardware monitoring). In case of frequent occurrence please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			632		Spike detected (hardware monitoring). In case of frequent occurrence please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			633		Spike detected (hardware monitoring). In case of frequent occurrence please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			634		Spike detected (hardware monitoring). In case of frequent occurrence please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
	635				User error. If error persists, please check lid micro switch and replace heating frame in case of switch failure. If error persists, please replace Cable Nexus III. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please close lid to ensure thermal sample protection
				636	Check voltage setting in service function Index. If error persists, please replace power supply 633x. If error persists, please replace PCB Mainboard.	Please call service
				637	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
	638				User error. If error persists, please check lid micro switch and replace heating frame in case of switch failure. If error persists, please replace Cable Nexus III. If error persists, replace Thermoblock. If error persists, replace PCB Mainboard.	Please close lid to ensure thermal sample protection
			639		Low voltage before fuses at 27V power input on PCB Mainboard. Please check Cable nexus I (insulation, screws) and replace if necessary. If error persists, please replace power supply. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			640		Low voltage before fuses at 12V input on PCB Mainboard. Please replace power supply. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			641		Plus5V missing on PCB Mainboard. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			642		Minus5V missing on PCB Mainboard. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			643		If error persists, please replace PCB Mainboard.	Please do not operate cyclor below 15C (59F) ambient temperature. If error persists, please call service.

			644		Voltage monitoring failure. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
				645	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				646	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				647	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				648	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			649		Low voltage after 27V fuse at middle block power channel on PCB Mainboard. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			650		Low voltage after 27V fuse at right block power channel on PCB Mainboard. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			651		Low voltage after 12V fuse for PCB Mainboard. Please replace F300 on PCB Mainboard. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			652		Low voltage after 12V fuse for fan. Please replace fan and F301 on PCB Mainboard. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			653		Low voltage after 12V fuse for PCB Control Unit. Please replace F302 on PCB Mainboard. If error persists, please replace PCB Control Unit. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			654		Low voltage after 12V current-limiting for Thermoblock and lid. Please replace Thermoblock. If error persists, please replace heating frame. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			655		Low voltage after 27V fuse at lid power channel on PCB Mainboard. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			656		Low voltage after 27V fuse at left block power channel on PCB Mainboard. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			657		Over-voltage before fuses at 27V power input on PCB Mainboard. Please check Cable nexus I (insulation, screws) and replace if necessary. If error persists, please replace power supply. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			658		Over-voltage before fuses at 12V input on PCB Mainboard. Please replace power supply. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			659		Plus5V over-voltage on PCB Mainboard. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			660		Minus5V over-voltage on PCB Mainboard. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			661		If error persists, please replace PCB Mainboard.	Please do not operate cyclor above 35C (95F) ambient temperature. If error persists, please call service.
			662		Voltage monitoring failure. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			663		Failure of lid power channel on PCB Mainboard. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			664		Failure of left block power channel on PCB Mainboard. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			665		Failure of middle block power channel on PCB Mainboard. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			666		Failure of right block power channel on PCB Mainboard. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			667		Over-voltage after fuse at 27V middle block power channel on PCB Mainboard. Please check Cable nexus I (insulation, screws) and replace if necessary. If error persists, please replace power supply. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			668		Over-voltage after fuse at 27V right block power channel on PCB Mainboard. Please check Cable nexus I (insulation, screws) and replace if necessary. If error persists, please replace power supply. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			669		Over-voltage after 12V fuse for PCB Mainboard. Please replace power supply. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			670		Over-voltage after 12V fuse for fan. Please replace power supply. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			671		Over-voltage after 12V fuse for PCB Control Unit. Please replace power supply. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			672		Over-voltage after 12V current-limiting for Thermoblock and lid. Please replace power supply. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			673		Over-voltage after fuse at 27V lid power channel on PCB Mainboard. Please check Cable nexus I (insulation, screws) and replace if necessary. If error persists, please replace power supply. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			674		Over-voltage after fuse at 27V left block power channel on PCB Mainboard. Please check Cable nexus I (insulation, screws) and replace if necessary. If error persists, please replace power supply. If error persists, please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			675		Please replace battery in holder BAT501 on PCB Mainboard.	Battery voltage low. Please call service.
	676				See user message.	This program contains settings incompatible with this thermocycler. Please delete the gradient function.

			677		Current source test block left channel failed due to PCB Mainboard failure. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			678		Current source test block middle channel failed due to PCB Mainboard failure. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			679		Current source test block right channel failed due to PCB Mainboard failure. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			680		Current source test lid channel failed. Please replace Cable Nexus II. If error persists, replace heating frame. If error persists, replace PCB Mainboard. If error persists, replace Thermoblock.	Please restart cyclor. If error persists, please call service.
			681		Current source test failed due to PCB Mainboard failure. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			682		Current source test block left channel failed. Please replace Cable Nexus II. If error persists, replace Thermoblock.	Please restart cyclor. If error persists, please call service.
			683		Current source test block middle channel failed. Please replace Cable Nexus II. If error persists, replace Thermoblock.	Please restart cyclor. If error persists, please call service.
			684		Current source test block right channel failed. Please replace Cable Nexus II. If error persists, replace Thermoblock.	Please restart cyclor. If error persists, please call service.
			685		Current source test block left channel failed due to PCB Mainboard failure. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			686		Current source test block middle channel failed due to PCB Mainboard failure. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
			687		Current source test block right channel failed due to PCB Mainboard failure. Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
				688	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				689	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			690		Wrong block type.	Wrong block type.
				691	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			692		Please replace PCB Mainboard.	Please restart cyclor. If error persists, please call service.
				693	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
	694				See user message.	This program contains settings incompatible with this thermocycler. Please adjust the gradient function.
				700	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				701	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				702	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
		800			Please follow troubleshooting guide for CAN bus system in service manual.	Please restart cyclor. If error persists, please call service.
				801	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			802		Filesize exceeds limit. Reset factory settings during software update. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				803	Internal software error. Please contact Eppendorf technical support in Hamburg.	Operation cannot be completed due to an invalid filename.
				804	Internal software error. Please contact Eppendorf technical support in Hamburg.	Operation cannot be completed due to an invalid filename.
				805	Internal software error. Please contact Eppendorf technical support in Hamburg.	Operation cannot be completed due to an invalid filename.
				806	Internal software error. Please contact Eppendorf technical support in Hamburg.	Operation cannot be completed due to an invalid filename.
			807		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyclor and call service if error persists.
				808	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			809		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyclor and call service if error persists.
				810	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			811		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyclor and call service if error persists.
				812	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				813	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				814	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			815		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyclor and call service if error persists.

			816		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyler and call service if error persists.
			817		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyler and call service if error persists.
			818		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyler and call service if error persists.
				819	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
			820		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyler and call service if error persists.
			821		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyler and call service if error persists.
			822		Please perform software update for updated error messages.	Operation cannot be completed. File already exists.
			823		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyler and call service if error persists.
			824		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyler and call service if error persists.
			825		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyler and call service if error persists.
			826		Please perform software update for updated error messages.	Operation cannot be completed. Directory already exists.
			827		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyler and call service if error persists.
			828		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyler and call service if error persists.
				829	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
				830	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
			831		USB storage medium may be defect or not FAT32-formatted, please check. If error is not due to USB storage, please replace PCB Control Unit.	File system error. When using USB storage, USB file system may be write-protected, corrupt or unsupported. Otherwise please restart cyler and call service if error persists.
				832	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
				833	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
				834	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
				835	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
				900	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
				901	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
				902	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
				903	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
				904	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
				905	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
				906	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
				907	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyler. If error persists, please call service.
			908		Failure accessing SPI memory. Please replace PCB Mainboard.	Please restart cyler. If error persists, please call service.
			1000		Testo initialization failed. Please check USB ports with an USB memory stick. If USB memory stick is not detected by cyler, replace PCB Control Unit. If error persists, please replace Eppendorf USB Testo Adapter (USB - RS232 converter). If error persists, please check Testo device.	Please check verification system and restart verification system and cyler. If error persists, please call service.
			1001		Testo communication error. Please use Eppendorf USB Testo Adapter (USB - RS232 converter). If error persists, please check Testo device.	Please check verification system and restart verification system and cyler. If error persists, please call service.
			1002		Testo temperature result out of range. Please use Eppendorf USB Testo Adapter (USB - RS232 converter). If error persists, please check Testo device.	Please check verification system and restart verification system and cyler. If error persists, please call service.

	1003		1003		See user message.	The Temperature Verification System single well has expired. A verification and adjustment is not possible. For re-certification please contact Eppendorf.
			1100		Control Unit and Cyclor firmware do not match.	Please use software synchronisation function for cyclor under System - Update
			1101		Control Unit and Cyclor firmware do not match.	Please use software synchronisation function for cyclor under System - Update
			1102		Control Unit and Cyclor firmware do not match.	Please use software synchronisation function for cyclor under System - Update
			1103		Control Unit and Cyclor firmware do not match.	Please use software synchronisation function for cyclor under System - Update
	1200				User error. Maximum number of users or programs with default names reached.	There is no further default name available. Please rename at least one existing node.
			1201		EEPROM Control Unit access failure. Please replace PCB Control Unit.	Please restart cyclor. If error persists, please call service.
				1202	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			1203		Please use service function Index to enter serial number as stated on product name plate.	Cyclor serial number is invalid.
				1300	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1301	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			1400		Please perform software update for updated error messages.	PCR program corrupted.
				1401	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1402	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1403	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1404	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			1405		Please replace PCB Mainboard.	Please restart cyclor and try to restart program. If error persists please call service.
				1406	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
		1407			Please follow troubleshooting guide for CAN bus system in service manual.	Please check your CAN connection (cabling, switches) and power. Please restart cyclor. If error persists, please call service.
		1408			Please follow troubleshooting guide for CAN bus system in service manual.	Please check your CAN connection (cabling, switches) and power. Please restart cyclor. If error persists, please call service.
				1409	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1410	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1411	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			1412		This subsequent error may occur if the device was not restarted after an error.	Please restart cyclor.
				1413	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1414	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1415	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1416	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1417	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1418	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1419	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1420	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			1421		This subsequent error may occur if the device was not restarted after an error.	Please restart cyclor.
				1422	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1423	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			1424		Please perform software update for updated error messages.	PCR program corrupted.
			1425		Please perform software update for updated error messages.	PCR program corrupted.
			1426		Please perform software update for updated error messages.	PCR program corrupted.
			1427		Please perform software update for updated error messages.	PCR program corrupted.
			1428		Please perform software update for updated error messages.	PCR program corrupted.
			1429		Please perform software update for updated error messages.	PCR program corrupted.
			1430		Please perform software update for updated error messages.	PCR program corrupted.
			1431		Please perform software update for updated error messages.	PCR program corrupted.
			1432		Please perform software update for updated error messages.	PCR program corrupted.
			1433		Please perform software update for updated error messages.	PCR program corrupted.
			1434		Please perform software update for updated error messages.	PCR program corrupted.
			1435		Please perform software update for updated error messages.	PCR program corrupted.
			1436		Please perform software update for updated error messages.	PCR program corrupted.

			1437		Please perform software update for updated error messages.	PCR program corrupted.
			1438		Please perform software update for updated error messages.	PCR program corrupted.
			1439		Please perform software update for updated error messages.	PCR program corrupted.
			1440		Please perform software update for updated error messages.	PCR program corrupted.
			1441		Please use service function for tempering diagnostic.	Please restart cyclor. If error persists, please call service.
			1442		Please use service function for tempering diagnostic.	Please restart cyclor. If error persists, please call service.
			1443		Please use service function for tempering diagnostic.	Please restart cyclor. If error persists, please call service.
			1444		Please use service function for tempering diagnostic.	Please restart cyclor. If error persists, please call service.
			1445		Please perform software update for updated error messages.	PCR program not executable on this cyclor or program corrupted.
				1446	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1447	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1448	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1449	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
	1450					Powerdown time has exceeded the 'restart time'
	1451					Program run was interrupted by mains failure.
	1452					Selected cyclor is not accessible. Please restart cyclor.
			1453		Ramp is only possible for MC nexus SX1 (Ag-Block).	This program contains settings incompatible with this thermocyclor. Please adjust the ramp function.
				1454	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1455	Please update software to a version compatible to MC Nexus X2. If error persists reset user data.	The cyclor is unable to save a protocol. Please update software.
			1500		Please perform software update for updated error messages.	PCR program corrupted.
			1501		Please perform software update for updated error messages.	PCR program corrupted.
			1502		Please perform software update for updated error messages.	Program too long.
			1503		Please perform software update for updated error messages.	PCR program corrupted.
			1504		Please perform software update for updated error messages.	PCR program corrupted or incompatible.
			1600		Please perform software update for updated error messages.	Printing error.
				1601	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			1700		Control Unit and Cyclor firmware do not match.	Please use software synchronisation function for cyclor under System - Update
				1800	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1801	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1900	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1901	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1902	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1903	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			1904		EEPROM Control Unit access failure. Please replace PCB Control Unit.	Please restart cyclor. If error persists, please call service.
				1905	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1906	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1907	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1908	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1909	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1910	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1911	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1912	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1913	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1914	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1915	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
	1916		1916			File system error. USB storage file system may be write-protected, corrupt or unsupported. Please use FAT32 formatted storage device.
	1917				User Error.	USB storage device cannot be removed safely! Please leave USB storage device connected while the USB symbol is shown in the title bar.
	1918				User Error.	USB storage device removed!
				1919	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1920	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1921	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				1922	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2000	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.

			2100		Please check for defect USB devices. If error persists, please replace PCB Control Unit.	Over-current at USB port detected! Please remove all USB-devices. USB will be available again after system restart. If error persists, please call service.
			2200		Please perform software update for updated error messages.	Please check your ethernet configuration (cabling, server addresses).
				2201	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2202	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2203	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2204	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			2205		Please perform software update for updated error messages.	Please check your ethernet configuration (cabling, server addresses).
			2206		Please perform software update for updated error messages.	Please check your ethernet configuration (cabling, server addresses).
			2207		Please perform software update for updated error messages.	Please check your ethernet configuration (cabling, server addresses).
			2208		Please perform software update for updated error messages.	Please check your ethernet configuration (cabling, server addresses).
			2209		Please perform software update for updated error messages.	Please check your ethernet configuration (cabling, server addresses).
				2210	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2211	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2212	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2213	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2214	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2215	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
		2300			Please follow troubleshooting guide for CAN bus system in service manual.	Please check your CAN connection (cabling, switches) and power and retry cyclor update. If error persists, please call service.
				2301	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2302	Internal software error. Please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			2303		Memory failure. Cyclor firmware update not possible. Please replace PCB Mainboard.	Please restart cyclor and retry update. If error persists, please call service.
			2304		Memory failure. Cyclor firmware update not possible. Please replace PCB Mainboard.	Please restart cyclor and retry update. If error persists, please call service.
			2305		Please download latest software from support.com and perform software update.	Please repeat control unit software update and retry cyclor update. If error persists, please call service.
				2306	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2307	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2308	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2309	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
				2310	Internal software error. Please perform software update. If error persists, please contact Eppendorf technical support in Hamburg.	Please restart cyclor. If error persists, please call service.
			2311		Please download latest software from support.com and perform software update.	Please repeat control unit software update and retry cyclor update. If error persists, please call service.
	2400				User error.	Self test not possible while block is in use.
	2500				User error.	Service interval verification has expired.
	2501				User error.	Service interval selftest has expired.

	After switching on Nexus, display shows "Date and time setting".			Please replace battery on PCB Control pad. Use Panasonic BR 1225 3V 48 mA/h. This battery will be available as spare part by Eppendorf soon. If message persists, please replace PCB Control pad. After replacing remember to set date and time.	
			Important information:	Software update protocol: Only one USB device can be inserted and used at one time. No other USB devices for example a mouse or second USB stick can be plugged in simultaneously otherwise, errors will occur.	