

## LIST OF STATUS ( LED AND DISPLAYED LETTERS )

### ● DESCRIPTION OF NORMAL STATUS

LED	LETTERS	STATUS	DESCRIPTION OF STATUS	NOTES
	OFF	OFF	The operation switch is turned off.	
	Setting lamp	TEMPERATURE SETTING	The setting of the heater's temperature is in progress.	If the heater's temperature reaches the set point, some beeps sound, and the condition changes to "STANDBY".
	Standby	STANDBY	The heater's temperature reaches the set point, and you can start the measurement.	
	Finished	MEASUREMENT FINISHED	The measurement has been finished.	
	Measuring	MEASURING	The measurements are in progress.	
	Suspended	MEASUREMENT SUSPENDED	During the measurement, the cell cartridge was pull out.	If you pull out the cell cartridge by mistake, the measurement can be continued by restoring it within 30secs..
	(none)	SELF CHECKING	The checking the condition of each channel is in progress. After turning on the operation switch, pulling out the cell cartridge, or closing the DOX software, this checking is done for about 5secs..	If the error occurs during this status, see the document of "DESCRIPTION OF HARDWARE FAULT STATUS". <b>CAUTION : If you set the cell cartridge during this status, error occurs.</b>

### ● DESCRIPTION OF HARDWARE FAULT STATUS

LED	LETTERS	STATUS	DESCRIPTION OF STATUS	SOLUTION
			CAUSE OF ERROR	
	Temp. fault	TEMPERATURE FAULT	The error of the temperature control occurred. The measurement had stopped.	Keep the room temperature between 15 and 30°C(59 and 86°F). Turn on the operation switch again.  If this phenomenon repeats under the normal atmosphere, the system may have some sort of the accident.
			①Instability of the heater's temperature ②Trouble of the temperature controller	
	Sensor fault	SENSOR FAULT	During "SELF CHECKING", the sensor of the cell cartridge detected the error.	If you can see the foreign object in the slot of the cell cartridge, turn off the operation switch and take it away.  If this phenomenon repeats, this system may have some sort of the accident. <b>CAUTION : In the case that you pour the liquid ( ex. the liquid medium ) into the slot of the cell cartridge, DOX may become to need the repair.</b>
	Current fault	CURRENT FAULT	During "SELF CHECKING", the ampere detector of the cell cartridge detected the error.	
			①Foreign object in the slot of the cell cartridge ②Trouble of the ampere detector	
	Channel fault	CHANNEL FAULT	During "SELF CHECKING", "SENSOR FAULT" and "CURRENT FAULT" was detected simultaneously. See columns of "SENSOR FAULT" and "CURRENT FAULT".	
	Meas. fault	MEASUREMENT FAULT	The current is hardly able to flow to the cell cartridge or the sample solution.	Check the content of the cell cartridge. If it isn't vacant, try to set it into other channels.  If this phenomenon repeats at any other channels, the sample solution may have very high impedance. But if this phenomenon doesn't repeat, this system may have some sort of accident.
			①Vacancy of the cell cartridge ②High impedance of the sample solution ③Trouble of the ampere detector	

### ● DESCRIPTION OF COMMUNICATION ( hereinafter COM. ) FAULT STATUS

LED	LETTERS	STATUS	DESCRIPTION OF STATUS	SOLUTION
			CAUSE OF ERROR	
	/	COM. FAULT	The com. between the PC and DOX is unable. When the DOX software is not running, it's a normal status, not the error.	Check the PC and the com. cable. If they have a problem, remove it. And the DOX software recovers the data. But if this error status has been continuing during more than 10hrs., the only newest data during 10hrs. can be recovered.
			The condition of the LED device of the channel that cell cartridge is set into maintain green lighting or blinking.	
			①PC Hang-up ②PC standby ③Detachment or the trouble of the com. cable ④Trouble of the com. function of the PC ⑤Trouble of the com. function of DOX	If the PC and the com. cable doesn't have any problem, this system may have some sort of accident.