

<b>Title:</b>	<b>Beeper Signals</b>			<b>ID:</b>
				0266
<b>Date in:</b>	<b>Response:</b>	<b>Model:</b>	<b>Author:</b>	
2006-09-25	2006-09-25	-	CMa	

The table below lists the implemented system alarms respective status information signals. Flags correlating with the specific alarm are also given. In case of multiple alarms or information signals, signals may be overlaid.

Status / Alarm Codes			
Signal Timings			
tON [s]	tOFF [s]	Related Flags	Comment
0.3	30	1505	Warning, Low Water Alarm
0.2	0.4	1515	Warning, User Door Open Time-Out
0.1	0.3	1514	Alarm, Gate Open Time-Out
0.2	0.2	N.A.	Alarm, Shovel conflict with stackers
0.1	2.4	6500	Information, System not initialized

The Low Water Alarm indicates low level of water needed for humidification of the instrument's incubation chamber. Adding water will make this warning disappear. This warning may also be canceled by pressing the multi-function key for ~3 seconds. The alarm will sound again if instrument is power cycled or – after reservoir has been re-filled – and the water level runs low again. This alarm is activated in system with integrated humidification option only. This alarm is muted by the service flag 1700 (ST 1700).

The User Door Alarm sounds if the user door is opened for more than 2 minutes. This alarm is mainly intended to inform the user that the user door may not be closed entirely. The User Door Alarm is stopped when the User Door is closed. Closing the door will reset the 2-minutes timeout. The User Door Alarm may also be reset by pressing the multi-function key while the alarm is active. This will cancel the User Door Alarm until the user door is closed. This alarm is implemented in instruments with climate option or with door-lock option only. This alarm is muted by the service flag 1700 (ST 1700).

The Gate Time-out Alarm occurs if the Gate is opened for more than 30 seconds. Pressing the multi-function key will mute this alarm. At the same time the system tries to close the Gate. The Gate Time-out Alarm is implemented in instruments having the Gate option only. This alarm is muted by the service flag 1700 (ST 1700).

The Shovel Conflict Alarm indicates possible mechanical interference of the plate shovel and a stacker. This alarm is considered as being critical since improper

operation may result in permanent miss-alignment or damage of the plate shovel mechanism. The Shovel Conflict Alarm is activated when the plate shovel is not in its home position (back position) while the user door is opened. This alarm may not be reset. Like all acoustic alarms this alarm is muted by the service flag 1700 (ST 1700) to allow service work on the shovel mechanism.

The System Initialization Signal indicates that the instrument is not initialized and the system is ready for initialization. An instrument - after cold start - with its user door opened is not ready for initialization. Therefore the System Initialization Signal will only occur after the user door is closed. On instruments having installed door lock option System Initialization Signal will sound after the door is locked (ST 1701) only. The System Initialization Signal is implemented in all systems and may be muted by the service flag 1700 (ST 1700).