

PEM2® Error Codes

Serial Number Range: P2_00001–P2_05289

Code #	Description	Action Required
2.5, 2.6, 2.7	<p>Firmware version currently running on logger</p> <p>One of several low-battery indicators. Battery pack is not producing sufficient voltage to power the Flash Drive without risking damage to the microchip.</p>	<p>Logger should be sent in for firmware upgrade and recalibration ASAP: https://store.imagepermanenceinstitute.org/ipi_recal/</p>
2.8, 2.9	<p>Firmware version currently running on logger</p> <p>One of several low-battery indicators. Battery pack is not producing sufficient voltage to power the Flash Drive without risking damage to the microchip.</p>	<p>Replace batteries in logger</p> <p>If error code reappears after battery replacement, send logger in for troubleshooting and repair: https://store.imagepermanenceinstitute.org/ipi_recal/</p>
-4-, -5-, -8-	<p>-Undefined-</p> <p>Will often appear in conjunction with low-battery state. Battery pack is not producing sufficient voltage to power the Flash Drive operation.</p>	<p>Replace batteries in logger</p>
-61-	<p>Cannot use a hub between PEM2 and Flash Drive</p> <p>Logger cannot communicate with Flash Drive unless it is directly connected (i.e. no extension cable or USB Hub device)</p>	<p>Insert Flash Drive directly into logger</p>
-70-	<p>Write Failure</p> <p>Generic error indicating logger cannot write data onto Flash Drive</p>	<p>Remove non-PEM2-related files from flash drive</p> <p>Run Error-Checking Tool</p> <p>Reformat Flash Drive</p>
-71-	<p>Could not open a file</p> <p>Flash Drive is write-protected and the logger cannot create a data file</p>	<p>Reformat Flash Drive</p> <p>Eject Flash Drive properly before removing from computer</p>

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-74-	<p>Could not close file</p> <p>Logger was able to create a file and begin writing data to it, but was unable to complete it</p>	<p>Reformat Flash Drive</p> <p>Eject Flash Drive properly before removing from computer</p>
-78-	<p>Root directory has no more file entries</p> <p>Logger cannot locate valid write location on Flash Drive</p>	<p>Reformat Flash Drive</p> <p>Eject Flash Drive properly before removing from computer</p>
-80-	<p>Lost communication with microchip</p> <p>The initial “handshake” between the logger and the Flash Drive failed</p>	<p>Logger should be sent in for firmware reinstall/repair: https://store.imagepermanenceinstitute.org/ipi_recal/</p>
-81-, -86-	<p>Ready line did not respond in a timely fashion</p> <p>The “handshake” process timed out before the microchip responded</p>	<p>Logger should be sent in for firmware reinstall/repair: https://store.imagepermanenceinstitute.org/ipi_recal/</p>
-82-, -87-	<p>Ready line did not respond in a timely fashion: did not reply to a poll in within 12 seconds</p> <p>The “handshake” process timed out before the microchip responded a poll (an “are you there” query)</p>	<p>Logger should be sent in for firmware reinstall/repair: https://store.imagepermanenceinstitute.org/ipi_recal/</p>
-83-	<p>Ready line did not respond in a timely fashion: did not block write within 6 seconds</p> <p>The “handshake” process timed out before the microchip wrote test data to the flash drive</p>	<p>Logger should be sent in for firmware reinstall/repair: https://store.imagepermanenceinstitute.org/ipi_recal/</p>
-84-, -85-	<p>Block Write responded with 0,0. Microchip may have died</p> <p>Microchip failure, logger not functioning</p>	<p>Logger should be sent in for firmware reinstall/repair: https://store.imagepermanenceinstitute.org/ipi_recal/</p>

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Code #	Description	Action Required
-90-	<p>Media removed while locked for writing</p> <p>Flash Drive was removed while still in “write data” mode – can be triggered by removing from either the logger OR the computer</p>	<p>Run Error-Checking tool</p> <p>Reformat Flash Drive</p> <p>Eject Flash Drive properly before removing from computer</p> <p>Wait until hourglass clears before removing Flash Drive from logger</p>
-97-	<p>Mount timeout</p> <p>Undefined timeout while initializing connection between Flash Drive and logger (Flash Drive-related failure)</p>	<p>Run Error-Checking tool</p> <p>Reformat Flash Drive</p>
-98-	<p>Mount issue. Known bad stick.</p> <p>Flash Drive is non-functioning or not recognized as a valid storage device</p>	<p>Replace Flash Drive</p>
-99-	<p>Could not initialize media</p> <p>Could not connect with Flash Drive and prepare for data transfer (Flash Drive-related failure)</p>	<p>Run Error-Checking tool</p> <p>Reformat Flash Drive</p> <p>Replace Flash Drive</p>