

Numed Cardiac Diagnostics

Product Support Tech Tip

Tech Tip No: 027-1001
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Date first issued: 5 October, 2001
Last Update: 5 October, 2001 15:43

Equipment: Mobil-o-Graph

Subject: Error Codes & Causes

Information & Recommended Action: The following table gives Mobil-o-Graph error codes as displayed on the recorder and on the Measurements Table print out, along with common causes.

Error Code	Causes of Error	Corrective Action
E001	<ol style="list-style-type: none"> 1. Pulse does not go to zero – a pulse is still detected when the pressure has fallen to zero. 2. Division by zero or a negative number. 3. Negative gain 4. Bad data in EEPROM memory 	<p>Occasional error 1 tends to be caused by external vibrations or shaking of the recorder during the measurement process.</p> <p>Regular error 1 indicates an internal error – the recorder should be returned for checking.</p>
E002	<ol style="list-style-type: none"> 1. No Pulse detected during a predefined period. 2. Pulse width outside measurable range. 3. Differing pressures for the same measurement. 4. More than 12 different pulse rates detected during the measurement. 	<p>Usually caused by excessive patient movement or external interference (eg vehicle motion).</p> <p>Excessive vibrations cause oscillations that make accurate measurements impossible.</p>
E003	<ol style="list-style-type: none"> 1. Diastolic Pressure not found 2. Pulse detection failed 3. Systolic & Diastolic pressures within 10mmHg of each other 4. Systolic or Diastolic pressure does not match Mean value 5. Systolic or Diastolic pressure outside limits 6. Diastolic pressure greater than 255mmHg 7. Time for arriving at valid measurement exceeded 	<p>Invalid measurement values have been obtained for one of the reasons opposite.</p> <ul style="list-style-type: none"> • Most commonly this error is caused by an improperly fitted cuff, or the cuff position has slipped. • This error will also be caused if no pulse is detected within 5 seconds of the cuff inflating. • The inflation phase has taken over 90 seconds, or the total measurement period has exceeded 130 seconds

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E004	1. Communication error between Mobil-o-Graph and computer	<ul style="list-style-type: none"> • Make sure the cable is connected securely at both the computer and recorder ends. • Fit fresh batteries in the recorder – communication can fail if battery level is low. • Reset the recorder by removing the battery cover for 5 seconds, replacing and switching the recorder back on. Co should appear on the recorder display.
E005	1. Battery voltage low	Replace batteries
E006	<ol style="list-style-type: none"> 1. No pressure build up in cuff 2. No pressure decrease in cuff 3. Very rapid pressure build up in cuff 	<ul style="list-style-type: none"> • Cuff is not properly connected or is leaking • Cuff is not deflating due to blockage, kinked tubing or internal recorder error (accompanied by rapid beeping signal for 200 beeps) • Multiple error 6's occurring after an error 3 indicate a potential hazard to patient due to pressure retention in cuff. This will be accompanied by an audible alarm. Recorder must be switched off & on to reset this fault condition
E007	No room for measurement in memory	Memory is full. Maximum capacity is 300 measurements.
E008	No measurements in memory	Memory is empty
E009	Auto zero error at start of reading	There is residue pressure in the cuff at the start of the measurement. Commonly caused by two measurements being taken in close succession.
bAr	Low Battery	Supposed to be read as BAT ! Batteries are flat.

Please contact Numed Product Support for further information or assistance.