



### 2000 Series Warning/Error Codes

<b>Error #:</b>	<b>Error Type:</b>	<b>Description:</b>
000	NO ERROR	No warnings/errors.
001	WARNING PULSE OUT RATE	Maximum pulse output rate exceeded.
002	WARNING RELAY 1 RATE	Maximum relay 1 totalizer rate exceeded.
003	WARNING RELAY 2 RATE	Maximum relay 2 totalizer rate exceeded.
004	WARNING RELAY 3 RATE	Maximum relay 3 totalizer rate exceeded.
005	WARNING RELAY 4 RATE	Maximum relay 4 totalizer rate exceeded.
006	WARNING COUNTER 1 RATE	Maximum mechanical counter 1 rate exceeded.
007	WARNING COUNTER 2 RATE	Maximum mechanical counter 2 rate exceeded.
020	ERROR OPTION 1 I <sup>2</sup> C READ	Error in reading from a non-memory I <sup>2</sup> C device on Option Card #1.
021	ERROR OPTION 1 I <sup>2</sup> C WRITE	Error in writing to a non-memory I <sup>2</sup> C device on Option Card #1.
022	ERROR OPTION 2 I <sup>2</sup> C READ	Error in reading from a non-memory I <sup>2</sup> C device on Option Card #2.
023	ERROR OPTION 2 I <sup>2</sup> C WRITE	Error in writing to a non-memory I <sup>2</sup> C device on Option Card #2.
024	ERROR OPTION 3 I <sup>2</sup> C READ	Error in reading from a non-memory I <sup>2</sup> C device on Option Card #3.
025	ERROR OPTION 3 I <sup>2</sup> C WRITE	Error in writing to a non-memory I <sup>2</sup> C device on Option Card #3.
026	ERROR OPTION 1 NV MEMORY READ	Error in reading from a nonvolatile memory I <sup>2</sup> C device on Option Card #1.
027	ERROR OPTION 1 NV MEMORY WRITE	Error in writing to a nonvolatile memory I <sup>2</sup> C device on Option Card #1.
028	ERROR OPTION 2 NV MEMORY READ	Error in reading from a nonvolatile memory I <sup>2</sup> C device on Option Card #2.
029	ERROR OPTION 2 NV MEMORY WRITE	Error in writing to a nonvolatile memory I <sup>2</sup> C device on Option Card #2.
030	ERROR OPTION 3 NV MEMORY READ	Error in reading from a nonvolatile memory I <sup>2</sup> C device on Option Card #3.

<b>Error #:</b>	<b>Error Type:</b>	<b>Description:</b>
031	ERROR OPTION 3 NV MEMORY WRITE	Error in reading from a nonvolatile memory I <sup>2</sup> C device on Option Card #3.
032	ERROR MOTHERBOARD NV MEMORY READ	Error in reading from the nonvolatile memory I <sup>2</sup> C device on the motherboard.
033	ERROR MOTHERBOARD NV MEMORY WRITE	Error in writing to the nonvolatile memory I <sup>2</sup> C device on the motherboard.
034	ERROR PULSE/SINEWAVE MICRO READ	Error in reading from the 87C751 microprocessor on the digital pulse/sinewave input Option Card.
035	ERROR PULSE/SINEWAVE MICRO WRITE	Error in writing to the 87C751 microprocessor on the digital pulse/sinewave input Option Card.
036	ERROR BTU MICRO READ	Error in reading from the 87C751 microprocessor on the Btu temperature input Option Card.
037	ERROR BTU MICRO WRITE	Error in writing to the 87C751 microprocessor on the Btu temperature input Option Card.
038	ERROR BTU A/D OVERRANGE	The input to the A/D converter on the Btu temperature input Option Card has exceeded the full-scale input voltage. This error could be due to improper selection of sensor types causing too high of a current to be used or due to a faulty sensor.
039	ERROR BTU A/D UNDERRANGE	The value returned by the A/D converter on the Btu temperature input Option Card is below the minimum valid value. This error could be caused by a faulty A/D converter on the card or due to a transmission error from the card to the main system.
040	ERROR INVALID ANALOG INPUT CALIBRATION	An invalid calibration value for an analog input Option Card has been detected.
041	ERROR ANALOG INPUT MISSING	The system was expecting to find an analog input Option Card installed in the meter but could not locate the card. Note that this error can occur if the system was expecting to find two cards and only one was located.
042	ERROR DIGITAL/SINE MISSING	The system was expecting to find a digital pulse/sinewave input Option Card installed in the meter but could not locate the card. Note that this error can occur if the system was expecting to find two cards and only one was located.
043	ERROR BATCH MICRO READ	Error in reading from the 87C751 microprocessor on the external input batch controller Option Card.
044	ERROR RS232/RS485 MICRO WRITE	Error in writing to the 80C652 microprocessor on the RS-232/RS-485 Option Card.

<b>Error #:</b>	<b>Error Type:</b>	<b>Description:</b>
045	ERROR RS232/RS485 MICRO READ	Error in reading from the 80C652 microprocessor on the RS-232/RS-485 Option Card.
046	ERROR RS232/RS485 DATA	Error in data transmission between the main system and the RS-232/RS-485 Option Card.
070	ERROR OSCILLATOR WATCHDOG RESET	A temporary failure occurred in the oscillator circuit for the motherboard microprocessor causing a watchdog reset.
071	ERROR WATCHDOG TIMER RESET	A watchdog timer reset has occurred.
080	ERROR MOTHERBOARD NV MEMORY BOOT READ	Error in reading from the nonvolatile memory I <sup>2</sup> C device on the motherboard during the boot up sequence.
081	ERROR MOTHERBOARD NV MEMORY BOOT WRITE	Error in writing to the nonvolatile memory I <sup>2</sup> C device on the motherboard during the boot up sequence.
082	ERROR MOTHERBOARD NV MEMORY INITIALIZATION	Error in initialization check of the nonvolatile memory I <sup>2</sup> C device on the motherboard.
083	ERROR MAXIMUM ANALOG INPUTS EXCEEDED	The maximum number of analog input Option Cards supported by the particular software version has been exceeded.
084	ERROR MAXIMUM ANALOG OUTPUTS EXCEEDED	The maximum number of analog output Option Cards supported by the particular software version has been exceeded.
085	ERROR MAXIMUM DIGITAL/ SINEWAVE EXCEEDED	The maximum number of digital pulse/sinewave input Option Cards supported by the particular software version has been exceeded.
086	ERROR BTU CARD NOT PRESENT	The Btu temperature card is not present in Option Card slot #1 (error for Model 2300 only).
087	ERROR BTU CARD NOT SUPPORTED	The BTU temperature card is not supported by the instrument (error for non-Model 2300s only).
088	ERROR MAXIMUM EXTERNAL BATCH INPUTS EXCEEDED	The maximum number of external input batch controller Option Cards supported by the particular software version has been exceeded.
089	ERROR EXTERNAL BATCH INPUT NOT SUPPORTED	The external input batch controller Option Card is not supported by the instrument (error for non-Model 2200/2201s only).
090	ERROR INCOMPATIBLE SOFTWARE	One of the Option Cards has been set up with a previous version of the software that is incompatible with the present version installed in the meter.

<b>Error #:</b>	<b>Error Type:</b>	<b>Description:</b>
091	ERROR MAXIMUM SERIAL EXCEEDED	The maximum number of RS-232/RS-485 Option Cards supported by the particular software version has been exceeded.
092	ERROR SERIAL NOT SUPPORTED	The RS-232/RS-485 Option Card is not supported by the particular software version.
093	ERROR ANALOG OUTPUT NOT SUPPORTED	The analog output Option Card is not supported by the particular software version.