

801 Series Error Codes

The following is a list of all possible error codes for 800P, 801P4, 801P5 and 801EP. A displayed error shows as “E-*”, where * is the number. For example, “E-96” indicates a bad A/D reading.

Serial Communication Errors

These codes should only occur during serial communication with the unit. If these codes show on the unit display, this indicates a “logic” error in the operating code. The unit will have to be returned for repair.

- E-21 Unit is busy:** Indicates that the unit is being adjusted using the keypad at the time the communications program is trying to access the unit.
- E-22 Password input error:** Indicates that the password sent to the unit by the communications program is incorrect.
- E-23 Invalid command:** Indicates that a command sent to the unit by the communications program is incorrect or not recognized.
- E-24 Invalid command format:** Indicates that the format of a command sent to the unit by the communications program is incorrect or not recognized.
- E-25 Non-numeric data:** Indicates that the unit was expecting numeric data, but received alpha data.

Internal Operating Code Errors

These codes indicate a problem internal to the unit. Any of these codes will require that the unit be returned for repair.

- E-30 Option error:** Indicates the program is trying to access a function for an option that is not activated in the unit. For example, if the program tries to access the 4-20 mA feedback, but the unit does not have the “V” option.
- E-31 Underflow error:** Indicates the program has experienced an operating problem resulting in insufficient data for the processor requirement, usually during a math function.
- E-32 Overflow error:** Indicates the program has experienced an operating problem resulting in illegal data for the processor requirement, usually during a math function.
- E-33 Open loop runtime error:** Indicates the program has experienced an operating problem resulting from inappropriate data while addressing the loop feedback circuit.

Most Commonly Displayed Errors

These errors are the most commonly displayed. Rebooting the unit can often clear E-95 and E-97. Any of these errors that don't clear require that the unit be returned for repair.

- E-95 Manufacturing data error:** Manufacturing data retrieved from the NV Ram does not have the correct checksum, indicating corrupt data. This generally occurs in areas prone to high electrical noise.
- E-96 Bad A/D reading:** Reading from the Analog to Digital converter is either above or below acceptable limits. Most commonly caused by vacuum applied to gauge pressure transducer. In the

801P5 and 801EP units, this error is self-clearing when the vacuum is removed. If the error doesn't clear, a damaged transducer is most likely the cause.

E-97 User data error: User data retrieved from the NV Ram does not have the correct checksum, indicating corrupt data. . This generally occurs in areas prone to high electrical noise.

E-98 Open Loop: This error is only used in the 800P series to indicate an open 4-20 mA loop.

Calibration Data Error

If this code shows on the unit display, this indicates a "logic" error in the operating code. The unit will have to be returned for repair.

E-99 Bad manufacturing cal data: This error code is only active during the calibration process, and indicates a value outside the acceptable limits.