



08-014 **Rev. A**
September 11, 2008

INFORMATION ON NEW E-SERIES MOTHERBOARDS

I. PURPOSE:

To give information on the recent upgrade to the motherboard installed in all E series analyzers.

II. TOOLS:

None.

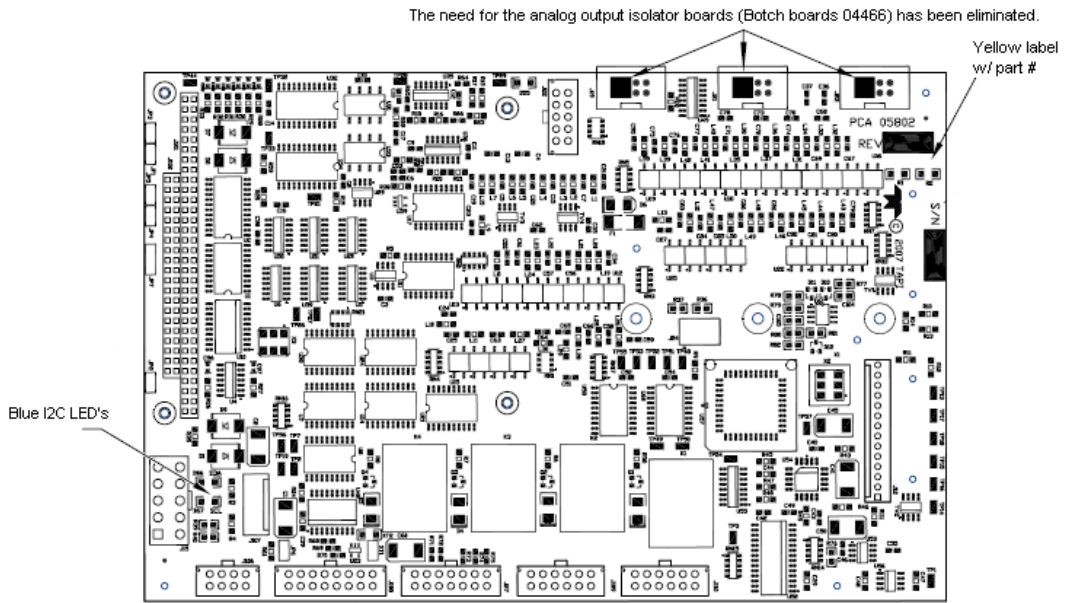
III. PARTS:

None.

This service note is an information only type. This document informs you of a recent upgrade to the motherboard installed in all of the E series analyzers. Specifically, a new motherboard design, P/N 05802 replaces P/N 05702 and all of its revisions installed in all models of the E series analyzers. This service note will affect those analyzers manufactured before 7/17/08. Analyzers purchased after this date will already have the new motherboard installed and will not be affected by this service note.

Motherboard similarities and differences:

- Both the new and old motherboards are used by the instrument's CPU for its power needs and to receive and transmit data to and from the analyzers various peripherals. The motherboard is also responsible for digital to analog conversion, analog to digital conversion and the routing of serial communication along with status and control inputs and outputs.
- The physical layout of the new motherboard (05802) is very similar to the old version (05702), see figure A.
- The need for the analog output isolator boards (Analog Isolator boards 04466) has been eliminated.
- Two (2) blue LED's have been added on I2C buss as an activity monitor and are located next to J15, see Figure A.
- A yellow label has been added that contains the part number, e.g. (058020100, 058020200, 058020400 058020500).



ALL VERSIONS SHOWN

Figure A