

Technical Bulletin # 01

To: Coulometrics Support Personnel
From: Engineering Dept.
Date: March 26, 1993
Subject: Enhancements to Coulometrics Models 5011 ,5012,3200 3201.

Purpose:

The purpose of this Bulletin is to update Coulometrics Support Personnel as to changes in the Coulometric Instruments. The changes listed are further Documented in Other Memos Described Below.

Summary:

The following improvements are being implemented in the Coulometrics models listed above. These improvements will enable the Carbon and Sulfur units to interface to the new CM5200 Solid Auto sampler and the CM5220 Liquid Autosampler Furnace .

The Changes are listed as follows :

1. New Serial Number System.
2. Installation of CM160-070 Interface cable in CM5011, 5012, 3200 and 3201 Coulometers.
3. Installation of revision B of CM110-017 CPU . This board replaces revision A . This change is necessary the interface cable to work.
4. Installation of Version 4 Sulfur EPROM in the CM3200, and CM3201 Sulfur units and, Version 4 Carbon EPROM in the CM5011, and 5012 Carbon units. The EPROM is installed on the CM110-017 REV B Circuit Board.

Additional Information:

- 1 .New serial number system :

The new serial number system is being implemented to help make it easier to track the instruments. The new system is further described in the Engineering Change Memo "New Serial Number system".

2. CM161-070 Din Cable Assembly:

The CM161-070 is a Din/Ribbon Cable assembly which is plugged into the CM110-017 connector J3 . The Cable is documented in the manufacturing procedure for the cable and the print for the cable. This provides the necessary interface of the Gnd, Solenoid Valve trigger, Liquid Autosampler, and Soild Autosampler trigger signals to the Coulometer via the DIN plug.

3. Revision B of CM110-017 CPU Board :

Additional information is provided in the Revision B Schematic of the CM110-017 CPU Board and wiring diagram .This board replaces the CM110-017 Revision A .This provides the necessary interface of the Gnd,Solenoid Valve trigger,Liquid Autosampler, and Solid Sampler Output trigger signals from the Coulometer via the DIN plug.

4. Version 4 EPROMS :

Version 4 EPROMS are necessary to support the interface.

F.D/S.R