



Technical Note: 10000036

MDC-360 Data Storage and Time-Option Installation Procedure Using the MDC-360 Series Installation Program

This option provides the MDC-360 Controller the storage capability of up to 16 process logs and/or 27,000 data point sets of real time run data. It also provides real time and date clock. See Section 5.6 of the MDC-360 Operation and Service Manual for more details. Follow the procedure below to install the optional DATA STORAGE and TIME-DATE in the MDC-360 Controller.

This option contains:

1 RAM IC (32 pin device) - P/N 93681000-10

Note: this one will only be used if your main board doesn't have surface mount type RAM, otherwise you don't need to install.

1 Controller IC (24 pin device) - P/N U24 DATALOG

Warning: The installation of the new RAM will result in the complete loss of program data in the MDC-360. If you would like to restore the program data after the installation, you need to obtain the Initialization Software from Maxtek at no charge. This software allows you to read, save and restore the complete MDC-360 program setup using a PC.

Please note that the Initialization software uses the RS-232 serial port of an IBM compatible 286 or greater PC to communicate with the MDC-360. **Note: this will only be necessary if your main board doesn't contain surface mount RAM.**

SAVING CURRENT MDC-360 PROGRAM SETUP

If you would like to save the current setup then you must do the following steps before you remove the existing RAM (U11). If not, skip to **Installation Procedure**.

- Connect the MDC-360's RS-232 port to the computer using a straight 9 pin female to 9 pin female D-sub cable or the RJ11 cable connected to the front panel of the MDC-360.
- Turn the MDC-360 on.
- Type 'INITMDC' from the drive containing the supplied disk to start the program. As soon as the program starts, it attempts communication with the MDC-360. If there are no errors the program will continue. If there are errors then check the connection to the MDC-360. Also make sure the correct COMM port is selected. The default COMM port is #1. You can change the COMM port by using the Serial Port option in the main menu.

- Once communication is successful, select the Get All command option from menu. Selecting this option will read all process, material, and system setup data and write it to the computer disk so it can be restored once the software upgrade is complete.

Note: Not applicable if your MDC-360, has surface mount RAM.

INSTALLATION PROCEDURE

Turn MDC-360 off and remove power cord.

- Remove the top cover of the MDC-360 by removing the screw on the top center of the rear panel.
- Refer to Figure 1, locate and remove the old RAM from socket U11 (28 pin device). Insert the new RAM (32 pin device). Be careful not to bend any pins when you insert the chip. Also make sure that you oriented the RAM correctly as shown in the figure.
Note: Not applicable if your MDC-360, has surface mount RAM.
- Locate U24 socket, insert the 'Controller IC' labeled U24 DATALOG (24 pin device). Be careful not to bend any pins when you insert the chip. Also make sure that you oriented the IC correctly as shown in the figure.
- Replace the top cover of the MDC-360.

INITIALIZING THE MDC-360

Do the following steps to re-initialize or restore the prior MDC-360 setup: Note: **Not applicable if your MDC-360, has surface mount RAM.**

- Turn MDC-360 on.
- Press the Reset key and the '7' key at the same time. This will re-initialize the MDC-360 parameters to their default settings. If you did not previously save the MDC-360's setup then the initialization and the DATA STORAGE and TIME-DATE option installation is completed.
- To restore the previously saved MDC-360 setup, type 'Initmdc' from the drive containing the supplied disk to start the initialization program.
- Select the Write All command option from the menu to restore all process, material and system setup data to the MDC-360.
- Press Abort, Start and Reset keys to load a process and first layer parameters into the active process and layer memory.
- Once the above steps are completed, everything is initialized and ready to run.

Refer to Section 4 of the MDC-360 Operation and Service Manual for setting up data points and time and date. If you have any problems then please us.

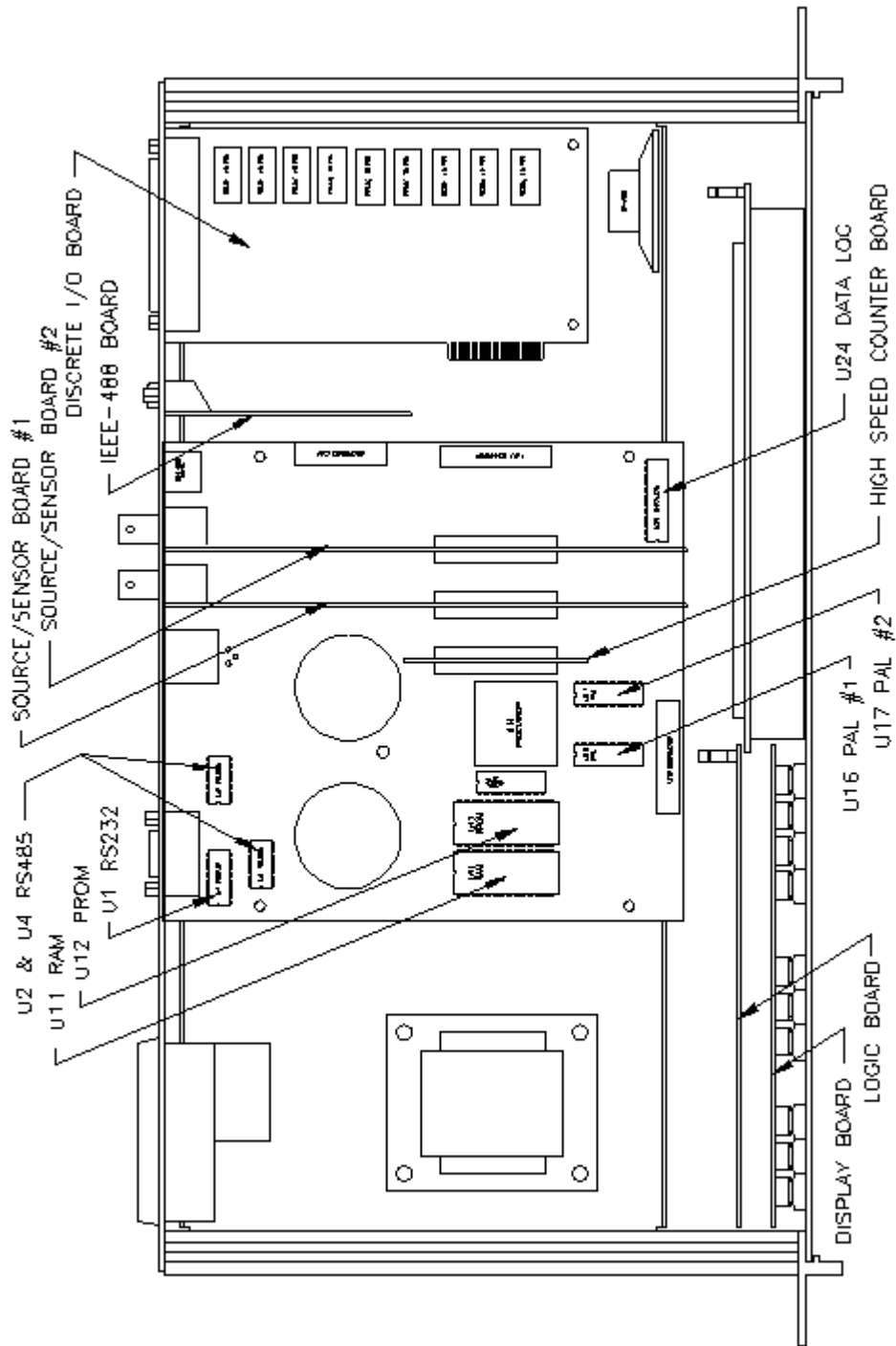


Figure 1 MDC-360C, Top View, Cover Removed

Document Title:	MDC-360 Data Storage & Time-Date Option Installation Procedure Using the MDC-360 Series Initialization Program
Document ID:	10000036
Creation Date:	
Modified Date:	2/8/2006
Related Products:	MDC-360C , MDC-361C
Product Line:	Thin Film / Vacuum
Notes:	Originally released as THIN FILM TECHNICAL NOTE V-136 This tech note also applies to the MDC-360, MDC-361, and MDC-370 deposition controllers.