MET/BASE Version 6.10 October 2000

This file contains information about the Version 6.10 release of MET/BASE.

What's New in V6.10?

New Drivers

Support has been added for the following instruments:

- Wavetek-Datron 1271
- Wavetek-Datron 1281
- Wavetek-Datron 4000 and 4000A
- Wavetek-Datron 4200 and 4200A
- Wavetek-Datron 4700
- Wavetek-Datron 4705
- Wavetek-Datron 4707
- Wavetek-Datron 4708
- Wavetek-Datron 4800 and 4800A
- Wavetek-Datron 4805
- Wavetek-Datron 4808
- Wavetek-Datron 4950
- Wavetek-Datron 9000
- Wavetek-Datron 9100
- Wavetek-Datron 9500
- Wavetek-Datron 900
- Wavetek-Datron 901
- Wavetek-Datron 905

In all cases except for the 900, 901, and 905 counter/timers, FSC names correspond to the instrument model numbers given above. For example, the **9500** FSC is used to control the Wavetek-Datron 9500. For some instruments, there is also an auxiliary FSC. For example, the **M9500** FSC works with the **9500** FSC. Refer to the on-line reference manual (*mc6_ref.pdf)* or to the on-line help in the **MET/CAL Editor** for details on the new FSCs.

The Wavetek-Datron 900 counter/timer is supported by the **6680** FSC. The Wavetek-Datron 901 counter/timer is supported by the **6681** FSC. The Wavetek-Datron counter/timer 905 counter/timer is supported by the **6685** FSC.

Measurement Uncertainty Output File

The procedure writer may now optionally specify that all intermediate measurement uncertainty data be written to an output file. Two file formats are supported: CSV and verbose. The measurement uncertainty output file may assist in verification and validation of the measurement uncertainty calculation. Refer to the *mfile* and *mfile_format* parameters in the **VSET** FSC help file for details.

Measurement Uncertainty Formatting

It is now possible to specify the number of significant digits used to report the measurement uncertainty output values. The output values are the expanded uncertainty, the standard uncertainty, and the global coverage factor. The number of significant digits may be specified in a procedure, or in the MET/CAL initialization file (*metcal.ini),* or in the database. Use the **Metrology Database Customization and Configuration** application to specify the number of significant digits in the database. A database specification applies to all workstations at your site (connected to one MET/BASE server). Refer to the *nsd* parameter in the **VSET** help file for additional information. (Use the on-line help in the **MET/CAL Editor** application.)

MEMCX FSC

MEMCX is a new FSC which operates like **MEMC,** except that it retrieves the *System Actual* and *UUT Indicated* values from the opposite locations. That is, if a **MEMCX** statement specifies a numeric NOMINAL value, **MEMCX** interprets the value as the *System Actual.* If a **MEMCX** statement does not specify a numeric NOMINAL value, the value of memory register **MEM1** is used as the *System Actual value.* It Is important to use **MEMCX** instead of **MEME + MEMC** when the measurement uncertainty calculation is enabled. Refer to the **MEMCX** on-line help file for additional information.

When the **MEMCX** FSC is used in a meter-type test a prior **MEME** statement is not needed to swap **MEM** and **MEM1** because the *System Actual* and *UUT Indicated* values are already in the proper memory registers for the **MEMCX** evaluation.

Cloning Assets

The **Manual Entry** application now supports “cloning” of assets. This provides an easy way to enter new asset information by starting with a copy of information for an existing asset.

Memo Fields

The **Manual Entry** application supports new *Memo* fields in the Inventory, Calibration, Location, and Repair tables. Each *Memo* field may contain up to 32 KB of text. These fields may be used to store maintenance procedures, calibration procedures, calibration results, datasheets, or any associated text.

UUT Reset

The **RESET** FSC can now be used to reset a UUT. This is done by omitting the IEEE-488 or serial address in the **RESET** statement in a procedure.

Word Left and Word Right in Editor

The **MET/CAL Editor** now supports Ctrl+Left Arrow to move one word left, and Ctrl+Right Arrow to move one word right. Shift+Ctrl+Left Arrow and Shift+Ctrl+Right Arrow are the same, but also cause the text to be selected.

Read-Only Run Time Prompts

In the **MET/CAL Run Time** application read-only prompt screen parameters may now be written to the database. This capability is controlled by the optional initialization file parameter *readonly_db_write.* If *readonly_db_write* is set to *YES*, or is omitted from the initialization file, the **Run Time** will write read-only prompt screen parameter values to the database if a database field is designated in a **Run Time** prompt file.

If *readonly_db_write* is set to *NO,* the **Run Time** will not write read-only prompt screen parameter values to the database, even if a database field is designated.

Support for Fluke 5500A/COIL

In V6.01 the Fluke 5500A/COIL could be configured as an option in the 5500A and 5520A instrument configuration dialogs. This feature alleviated the need to configure the 5500A/COIL as a manual standard separate from the calibrator. However, the MET/CAL V6.01 5500A and 5520A accuracy files did not contain specifications for the 5500A and 5520A when used with the 5500A/COIL. In V6.10 the 5500A and 5520A accuracy files now contain specifications for the calibrator and the coil when used together. The proper **CON** field code must be used in the **5500** and **5520** FSCs to utilize these specifications. The **CON** field codes specify the current clamp type as toroidal or non-toroidal. Refer to the on-line help files for the **5500** and **5520** FSCs for additional information.