

MET/CAL® *Plus* Software Version 7.2

**Flexible standards, Pack/Unpack utility,
support for new products and more**

Technical Data

MET/CAL *Plus* software release 7.2 adds new instruments that can be automated, new procedures (especially RF calibration procedures), and these exciting new features:

- Flexible standards, which allow you to write procedures, enabling substitution of equivalent standards - you're no longer locked to a specific reference model.
- Pack/Unpack utility, which makes it easier to transport procedure files between MET/CAL systems.
- ...and more

Broader instrument support

Version 7.2 allows MET/CAL *Plus* to address an expanded workload, particularly in the area of RF calibration. New Function Select Codes (FSCs) are now available to support these instruments:

- New Fluke 9640A RF Reference Source
- New Agilent N5531S Measuring Receiver
- Agilent PSA Spectrum Analyzer - traditional spectrum analysis and phase noise functions
- Agilent 5350, 5351 and 5352 Microwave Counters
- New 8845A and 8846A 6.5 Digit Precision Multimeters
- New Fluke 5320A Multifunction Electrical Tester Calibrator
- Fluke PM6690 Counter/Timer/Analyzer



What's new in MET/CAL® *Plus* 7.2

This data sheet is presented as a companion to the MET/CAL® *Plus* Version 7.1 data sheet (literature code 1627836 D-US-N Rev E). It includes information about new features in the new version 7.2. For complete MET/CAL *Plus* software information, including ordering information, please refer to the version 7.1 data sheet.

New products supported by MET/CAL Plus v7.2



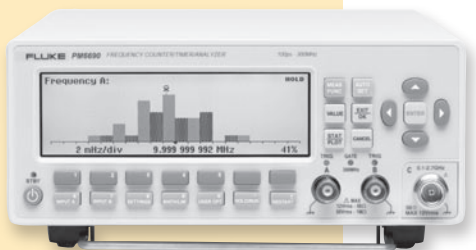
Fluke 5320A Multifunction Electrical Tester Calibrator



8845A and 8846A 6.5 Digit Precision Multimeters



Fluke 9640A RF Reference Source



Fluke PM6690 Counter/Timer/Analyzer

New RF calibration procedures

To make users of the new Fluke 9640A RF Reference Source more productive right away, Fluke has developed new RF procedures for popular spectrum analyzers. In addition, the Agilent N5531S Measuring Receiver is supported with procedures for this popular signal generator. Members of the Fluke MET/SUPPORT Gold support program receive all Warranted Procedures free of charge as part of their membership. New procedures are now available for the following instruments:

- HP 8590L Spectrum Analyzer
- Rhode & Schwarz FSH3, FSH313 & FSH323 Spectrum Analyzers
- Anritsu MS2661C Spectrum Analyzer
- HP 8648A, 8648B, 8648C, 8648D 9 kHz to 4 GHz Signal Generators
- HP 8496A DC-4 GHz Manual Step Attenuator
- Agilent E4403B Spectrum Analyzer

Other new procedures made available recently include:

- Agilent 6000 Oscilloscope
- Agilent 80000 Oscilloscope

Flexible standards

Have you ever acquired a MET/CAL procedure, only to discover that it specifies a different reference instrument than the ones you have? This is a common occurrence, and, until now, it required you to edit the procedure to accommodate your specific reference instruments. Any customer writing procedures to serve multiple labs will have this problem, unless each lab is equipped with identical instruments.

MET/CAL 7.2 solves this problem with its new flexible standards feature, which allows procedures to be written using an alias name for a standard instead of calling a specific FSC. When the procedure runs, the MET/CAL software checks to see what actual model has been configured with that alias name, and then uses a special sub-procedure to send out the correct control codes to communicate with your instrument. This allows a defined set of reference instruments to be swapped among a list of interchangeable instruments. And the technique can be used to cover the core functionality of virtually any type of reference. Release 7.2 comes with support for controlling many instruments in these classes:

- Counters
- Function generators
- Signal generators
- Level/reference generators
- DMMs

With a little experience, you can add your own models or classes to your flexible standards library. This will be a particularly useful capability when running RF procedures, because there are so many different signal generator models with the same functional capabilities.

Pack/Unpack utility

The new Pack/Unpack utility is a procedure portability tool that makes it easier to transport procedure files from one MET/CAL system to another. From the MET/CAL Procedure Editor, you can pack all of the elements comprising a complete executable procedure (including main and sub procedures, picture files and external executable files) into one package file that can be transported easily on any removable media or transmitted over a network. On the receiving end, use your MET/CAL Editor to unpack the procedure package file and all of the elements will be automatically stored in the proper directories on the new workstation, ready to be run.

The Pack utility is provided only in MET/CAL v7.2. In the future, Warranted Procedures available from the MET/SUPPORT Gold site will use the Pack program to build the downloadable procedure archive.

A separate Unpack utility will be provided at no charge on the Fluke MET/SUPPORT web site and can be used on any MET/CAL system at version 7.0 or higher.

Other MET/CAL Plus v7.2 enhancements

There are more than 15 additional enhancements to the MET/CAL procedure language to make procedure writing easier and more powerful.

These new features include:

- Named variables
- Slewing for user-configured instruments
- And more... A detailed list can be obtained from the MET/SUPPORT web site.

Joining the MET/SUPPORT web site:

1. Go to <http://support.fluke.com>
2. Select your preferred language from the pull-down list.
3. In the field next to "Name of the site where you want to go," select "Met-support" from the pull-down list and click the Register button.
4. Fill out and submit the registration form.
5. You will receive email from the site administrator when your registration has been approved.
6. To logon once you have become a member, just follow steps 1 through 3, clicking the Logon button instead of the Register button. You'll be asked to type in your user name and password.
7. Once you have logged in, you can search for information by clicking the Search button on the navigation bar.



Ordering information

MET/BASE-7	Calibration Software Database System. One or more MET/CAL, 5500/CAL and/or MET/TRACK license disks required for use.
MET/CAL-L	License disk for MET/CAL. Includes capabilities of 5500/CAL and MET/TRACK. MET/BASE 7 or earlier version required.
5500/CAL-L	License disk for 5500/CAL. Includes capabilities of MET/TRACK. MET/BASE 7 or earlier version required.
MET/TRACK-L	License disk for MET/TRACK metrology property management software. MET/BASE 7 or earlier version required.
MET/BASE-7U	MET/BASE Upgrade. Upgrades MET/BASE from version 5.0 or later to current version. Upgrade licenses are also required for systems running MET/BASE older than version 7.0.
MET/CAL-LU	License disk upgrade. MET/BASE 7 and serial number for prior version (5 or newer) of MET/CAL required.
5500/CAL-LU	License disk upgrade. MET/BASE 7 and serial number for prior version (5 or newer) of 5500/CAL required. upgrade. MET/BASE 7 and serial number for prior version (5 or newer) of MET/TRACK required.

Additional options and accessories

Metrology XPlorer	Web-based data viewer for MET/CAL and MET/TRACK, with Reports
BC Magic Basic	Barcode Magician Basic automated data entry
BC Magic Plus	Barcode Magician Plus enhanced version
Change/Log	Records changes made to the MET/TRACK Database
MET/CAL EMAIL	Automated E-Mail generation
5000A-RH/T	Humidity/Temp Logger w/CBL, Software and Cal Cert
1620A-S	(Requires 9936A) Thermo-Hygrometer, Dewk, standard
1620A-H	(Requires 9936A) Thermo-Hygrometer, Dewk, high
9936A	LogWare III Software
MET/CAL-CBT7	Two complete, interactive training courses on a CD-ROM
Scheduled Training	Various courses available
MET/SUPPORT GOLD	Priority support agreement for one workstation. For additional workstations contact sales rep.
MET/CAL-IEEE PCI	Two GPIB interface adapters for computers with PCI bus.
MET/CAL-IEEE USB	Two GPIB interface adapters for computers with USB ports
MET/CAL IEEEPCMCIA	One GPIB interface adapter for computers with PCMCIA expansion slots.

Fluke. Keeping your world up and running.™

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