

Keysight Technologies

Medalist i3070 In-Circuit Test System

Onsite Calibration Service

Keysight Onsite System Calibration for Improved Confidence

Technical Overview

Calibration is one of the critical factors that affect the accuracy and repeatability of any electronic measurement system. As components age and equipment experience changes in temperature or mechanical stress, system performance will gradually degrade.

The Keysight Technologies, Inc. onsite system calibration ensures that your Keysight *Medalist* i3070 in-circuit test (ICT) will perform optimally on your production floor, providing you with that 'as good as new' confidence level in your testing integrity.

This service is performed during office hours at your convenience, and with minimum disruption to the production schedule. This service includes all testing prescribed by Keysight to certify that the i3070 system is performing to specifications. A system calibration ensures that the i3070 system meets specifications when performing both analog and digital tests on the system.

The calibration standards meet ISO 9000 requirements, thereby providing quality control for the i3070 system. It

includes a full set of 'pre-adjustment' calibration measurements data using accredited calibrated-traceable instruments. Whenever ASRU adjustments are required, a second complete set of data is recorded after all adjustments have been completed. These 'pre-adjustment' measurements are stored and later printed on the calibration certificate. They will show whether your i3070 system was within specifications when you last used it. This allows you to make an informed assessment about the validity of the testing you had been performing on your products while the i3070 system was not performing to specification. An i3070 system that is out of specification may negatively affect test coverage by causing bad parts to pass and good parts to fail.

The certificate can prove not only that the system meets specifications after the ASRU adjustments, but also that the system was operating within specifications before the adjustments were performed. By calibrating and adjusting, your i3070 system is brought back within tighter specifications even if the system appears to be performing well.

There are several ways to buy Keysight's calibration services, each with its own advantages. Choose the purchase option that best suits your needs. Refer to the literature *Choose the Services that Best Fit your Needs*, literature part number 5990-3431EN, which can be found at www.keysight.com/find/systemsupport

System calibration key deliverables

Measure before calibrate



ASRU calibration and data store



Measure after calibrate



Accredited certification

i3070 System Calibration

An i3070 system calibration service is available for customers who desire comprehensive measurements and reporting. System calibration should be performed every six months. This service uses a system calibration program (Keysight proprietary license protected software) and a traceable voltmeter and frequency counter to measure a DC voltage source, an AC voltage source, a resistor, and two oscillator frequencies.

These measurements are the foundation for all analog measurements and digital timing. These same parameters are also measured using the internal detectors in the i3070 system, and the measurements are compared to the standards set by the voltmeter and frequency counter to calibrate the detectors. A report is generated containing the measurement and uncertainty data.

After the calibration is completed, the data is entered into Keysight's calibration administration and tracking system database to provide tracking of the calibration instruments. A certificate of calibration and a calibration report will be delivered to the customer. An accredited certified-traceable sticker is affixed to the system to indicate dates of the last and next calibration services.

ISO9000 Certification

The Keysight ISO9000 certificate covers R&D, manufacturing, marketing, service and support processes. The ISO9000 audit confirmed that Keysight Technologies has been effectively maintained. The latest information on Keysight's ISO9000 certificate can be found at: http://www.agilent.com/quality/DEKRA_ISO9001_Attestation.pdf

Accredited Calibration

For the highest confidence in your i3070 system, this service provides measurements with uncertainties that are accredited by the local accrediting agency. Keysight's best measurement uncertainties are available via your local accrediting agency's web site. They are invariably the best commercially available, which ensures your Keysight accredited calibration gives better measurement confidence than any other similar services available.

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

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Canada	(877) 894 4414
Brazil	55 11 3351 7010
Mexico	001 800 254 2440
United States	(800) 829 4444

Asia Pacific

Australia	1 800 629 485
China	800 810 0189
Hong Kong	800 938 693
India	1 800 112 929
Japan	0120 (421) 345
Korea	080 769 0800
Malaysia	1 800 888 848
Singapore	1 800 375 8100
Taiwan	0800 047 866
Other AP Countries	(65) 6375 8100

Europe & Middle East

Austria	0800 001122
Belgium	0800 58580
Finland	0800 523252
France	0805 980333
Germany	0800 6270999
Ireland	1800 832700
Israel	1 809 343051
Italy	800 599100
Luxembourg	+32 800 58580
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For other unlisted countries:
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