



Agilent Technologies

Agilent Technologies (M) Sdn. Bhd. (012767-W)
Bayan Lepas Free Industrial Zone
11900 Penang
Malaysia



5962-0476

Certificate Of Calibration

Certificate No: 34420AMY42004050

Manufacturer: Agilent Technologies
Model No: 34420A
Options Installed With Specifications: N/A

Description: Nano Volt/Micro Ohm Meter
Serial No: MY42004050

Date of Calibration: 28 MAR 2012
Temperature: (23 + /-5)C
Procedure: VM_34420AF/206166084546

Humidity: 20 to 80% RH

This certifies that the above product was calibrated in compliance with a quality system registered to ISO 9001:2008, using applicable Agilent Technologies' procedures.

As Received: Factory tested. No incoming data available.

As Shipped Conditions: At the completion of the calibration, measured values were IN-SPECIFICATION at the points tested.

These calibration procedures and test points are those recommended in a procedure developed by Agilent.

Remarks or special requirements:

Traceability Information: Traceability is to the International System of Units (SI), consensus standards or ratio type measurements through national standards realized and maintained by the. NIST U.S, NRC Canada, NMIJ Japan, KRISS Korea, Euramet members (NPL, PTB, etc.), NML-SIRIM in Malaysia or other National Measurement Institutes signatories to the CIPM MRA. Supporting documentation relative to traceability is available for review by appointment. This report shall not be reproduced, except in full, without prior written approval of the calibration facility.

Calibration Equipment Used:

Model Number	Model Description
3458A	Multimeter
Fluke 5720A	Calibrator
Fluke 5725A	Amplifier

Date Used: Date equipment used in this Calibration.

Trace Number	Date Used	Cal Due Date
US28028561	28-MAR-2012	08-MAY-2012
9315221	28-MAR-2012	11-JAN-2013
5165009	28-MAR-2012	11-JAN-2013

Print Date: 19-APR-2012

Tay Eng Su
Quality Manager

AGILENT TECHNOLOGIES				
	DD	MM	YY	BY
CAL	28	03	12	M.A.
DUE				

TEST REPORT

TEST DESCRIPTION	READING	ERROR	1 YEAR SPEC
NOISE 2 MIN PK-TO-PK at 1mV	2.72E-09		8nVpp
NOISE 2 MIN PK-TO-PK at 10mV	4.03E-09		10nVpp
NOISE 2 MIN PK-TO-PK at 100mV	35.9E-09		65nVpp
NOISE 2 MIN PK-TO-PK at 1V	318.E-09		650nVpp
NOISE 2 MIN PK-TO-PK at 10V	9.60E-07		3uVpp
NOISE 2 MIN PK-TO-PK(CH2) at 1mV	3.09E-09		8nVpp
DCV CHANNEL 1 +1mV on 1mV Range	.000999986	-0.0014%	+/-0.0070%
DCV CHANNEL 1 +10mV on 10mV Range	.009999931	-0.0007%	+/-0.0053%
DCV CHANNEL 1 +100mV on 100mV Range	.09999996	-0.0000%	+/-0.0044%
DCV CHANNEL 1 +1V on 1V Range	.9999998	-0.0000%	+/-0.0039%
DCV CHANNEL 1 +10V on 10V Range	10.000000	+0.0000%	+/-0.0034%
DCV CHANNEL 1 -10V on 10V Range	-9.9999998	+0.0000%	+/-0.0034%
DCV CHANNEL 1 +100V on 100V Range	99.999983	-0.0000%	+/-0.0040%
DCV CHANNEL 2 +1mV on 1mV Range	.001000005	+0.0005%	+/-0.0070%
DCV CHANNEL 2 +10mv on 10mV Range	.009999923	-0.0008%	+/-0.0053%
DCV CHANNEL 2 +100mV on 100mV Range	.09999999	-0.0000%	+/-0.0044%
DCV CHANNEL 2 +1V on 1V Range	.9999995	-0.0000%	+/-0.0039%
DCV CHANNEL 2 +10v on 10V Range	9.9999987	-0.0000%	+/-0.0034%
4W OHMS 1OHM on 1OHM Range	1.0000004	+0.0000%	+/-0.0072%
4W OHMS 10OHMS on 10OHMS Range	10.000010	+0.0001%	+/-0.0062%
4W OHMS 100OHMS on 100OHMS Range	100.00008	+0.0001%	+/-0.0062%
4W OHMS 1KOHMS on 1KOHMS Range	999.99993	-0.0000%	+/-0.0062%
4W OHMS 10KOHMS on 10KOHMS Range	9999.9922	-0.0001%	+/-0.0062%
4W OHMS 100KOHMS on 100KOHMS Range	99999.969	-0.0000%	+/-0.0064%
4W OHMS 1MOHMS on 1MOHMS Range	999997.38	-0.0003%	+/-0.0074%
4W OHMS LO POWER 1OHM Full Scale	.9999996	-0.0000%	+/-0.0072%
4W OHMS LO POWER 10OHMS Full Scale	10.000028	+0.0003%	+/-0.0062%
4W OHMS LO POWER 100OHMS Full Scale	100.00009	+0.0001%	+/-0.0062%
4W OHMS LO POWER 1KOHMS Full Scale	1000.0012	+0.0001%	+/-0.0062%
4W OHMS LO POWER 10KOHMS Full Scale	10000.033	+0.0003%	+/-0.0064%
4W OHMS LO POWER 100KOHMS Full Scale	99999.899	-0.0001%	+/-0.0075%
4W OHMS LO VOLTAGE 10OHMS Full Scale	9.9999857	-0.0001%	+/-0.0072%
4W OHMS LO VOLTAGE 100OHMS Full Scale	99.999238	-0.0008%	+/-0.0072%