NanoVolt/Micro-Ohm Meter

34420A

This document is a supplement to the Safety Information document (#5185-8500) and the 34420A User and Service Guide. In case of conflicting information, the information in this document supersedes the information in the other documents for the Keysight 34420A NanoVolt/Micro-Ohm Meter.

KEYSIGHT

SAFETY/REGULATORY ADDENDUM

Safety/Regulatory Addendum for the Keysight 34420A NanoVolt/Micro-Ohm Meter

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Notices

Part Number 5185-8501, Edition 3

The latest product documentation is available at www.keysight.com/find/34420A.

Safety Notices

CAUTION

A CAUTION notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood and met.

WARNING

A WARNING notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.

Safety Symbols


Alternating current


Frame or chassis


In position of a bi-stable push control


Out position of a bi-stable push control


CAUTION Refer to accompanying documents

Regulatory Markings

The CE mark is a registered trademark of the European Community. This CE mark shows that the product complies with all the relevant European Legal Directives.

CAN ICES/NMB-001(A) indicates that this ISM device complies with Canadian ICES-001.
Cet appareil ISM est conforme à la norme NMB-001 du Canada.

ISM GRP 1-A indicates that the instrument is an Industrial Scientific and Medical Group 1 Class A product.

The **UKCA** (UK Conformity Assessed) marking is a UK product marking that is used for goods being placed on the market in Great Britain (England, Wales, and Scotland)

The CSA mark is a registered trademark of the Canadian Standards Association.

The RCM mark is a registered trademark of the Spectrum Management Agency of Australia. This signifies compliance with the Australia EMC Framework regulations under the terms of the Radio Communication Act of 1992.

This instrument complies with the WEEE Directive (2002/96/EC) marking requirement. This affixed product label indicates that you must not discard this electrical or electronic product in domestic household waste.

To return unwanted products, contact your local Keysight office, or see www.keysight.com/environment/product/ for more information.

This symbol is a South Korean Class A EMC Declaration. This is a Class A instrument suitable for professional use and in electromagnetic environments outside of the home.

이 기기는 업무용 (A 급) 전자파적합기기로서 판 매자 또는 사용자는 이 점을 주의하시기 바라 며, 가정외의 지역에서 사용하는 것을 목적으 로 합니다.

This symbol indicates the time period during which no hazardous or toxic substance elements are expected to leak or deteriorate during normal use. Forty years is the expected useful life of the product.

Safety Information

General

WARNING **Do not exceed any of the measurement limits defined in the specifications to avoid instrument damage and the risk of electric shock.**

WARNING **Before use, verify the Keysight 34420A NanoVolt/Micro-Ohm Meter's operation by measuring a known voltage.**

WARNING **Inspect the test leads for damaged insulation or exposed metal. Check the test leads for continuity. Replace damaged test leads before you use the Keysight 34420A NanoVolt/Micro-Ohm Meter.**

Transient Voltage

WARNING

- **This equipment is under CAT 'None' measurement category and the measuring terminals are not to be connected directly to MAIN.**

CAT 'None'
Maximum Working Voltage: 120 Vdc for altitude up to 2000 m max
Maximum Transient Voltage: 350 Vpk

- **Do not measure more than the rated voltage (as marked on the equipment).**

Equipment Ratings

- Equipment Class I.
- Pollution Degree 2.
- Installation Category II.
- For indoor use.
- Measurement Category 'None' where the maximum working voltage is 120 Vdc for altitudes up to 2000 meters and the maximum transient voltage is 350 Vpk.
- Mode of operation: Continuous Duty cycle.
- Environmental Conditions: 0 °C to 55 °C, 0% to 80% Relative Humidity, non-condensing at 0 to 55°C, 2000 meters altitude maximum.
- Mains supply voltage fluctuations not to exceed ±10% of nominal voltage.

Measurement Categories

DC voltage: up to 100 V dc, 0.1 nV maximum resolution.

Resistance: up to 1 MΩ, 0.1 μΩ maximum resolution.

Temperature: (Thermocouple, thermistor, RTD).

Maximum voltage between terminals is 150Vpk; Maximum voltage on any terminal is limited to 350Vpk, referenced to earth. This equipment is rated for CAT 'None', and the measuring terminals are not to be connected directly to mains.

Declaration of Conformity

Declarations of Conformity for this product and for other Keysight products may be downloaded from the Keysight Regulatory Web site:

http://regulations.products.keysight.com/DoC/search.htm

You can then search by product number to find the latest Declaration of Conformity.

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