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**the World Market Webinar Introduction to Field Labelling** ~~2018 NFPA 70E Changes — Jim Phillips, P.E.~~ **Electrical Safety Testing - Planned Preventative Maintenance Multimeters for electrical installations** Iec 61010 Electrical Measurement Category

Measurement Categories according to IEC/EN 61010-031 Measurement Category CAT I Inside battery-operated electronic equipment or inside devices in which voltages are generated. Example: Measurement in motor vehicle (here with automobile fuse adapter PA2-5X0,65/B4)

## Measurement Categories according to IEC/EN 61010-031

IEC 61010 Electrical measurement category ratings for test tools  
Important note: CAT ratings on test tools are different than hazard/risk category ratings on PPE gear. CAT ratings are determined by the potential transient impulse in the workplace that a connected test tool might experience.

## IEC 61010 Electrical measurement category ratings for test ...

Measurement Categories (CAT I, II, III, IV) Measurement categories are defined by the CE and UL safety standard IEC 61010-1 and are used to indicate the ability of an instrument (like the WattNode ® meter) to withstand voltage spikes without posing a shock hazard to the operator. An instrument should only be used at or below its rated

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measurement category and voltage.

Measurement Categories (CAT I, II, III, IV) - Continental ...

TEST REPORT IEC/EN 61010-1 Safety requirements for electrical equipment for measurement, control, and laboratory use Part 1: General requirements TRF No. TRF No. IEC61010\_1J \_M1 STC (Dongguan) Company Limited 68 Fumin Nan Road, Dalang, Dongguan, China.

TEST REPORT IEC/EN 61010-1 Safety requirements for ...

TRF No. IEC61010\_D TRF originator: VDE. Summary of testing: The instrument is designed for shaking liquid in tube, intended to be used in lab or schools. It uses the principle of cam vibration technique to make the liquid in a tube well-distributed. 2 types: MX-S and MX-F were considered in this report.

TEST REPORT IEC 61010-1 Safety requirements for electrical ...

IEC 61010-1:2010 specifies general safety requirements for the following types of electrical equipment and their accessories, wherever they are intended to be used. a) Electrical test and measurement equipment. b) Electrical industrial process-control equipment c) Electrical laboratory equipment. This third edition cancels and replaces the second edition published in 2001.

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## [IEC 61010-1:2010 | IEC Webstore](#)

Under IEC 61010-1 2nd edition, a Cat I 150V meter could be protected only to 500V, as long as that information is in the user's manual. CAT II-rated test instruments cover the local level of circuits for fixed or non-fixed power devices. This includes most lighting equipment, appliances, and 120V or 240V equipment inside a building.

## [What You Need to Know About Category Ratings | EC&M](#)

Examples are measurements on circuits not derived from mains, and specially protected (internal) mains-derived circuits. In the latter case, transient stresses are variable; for that reason IEC 61010-1-5.4.1 (g) requires that the transient withstand capability of the equipment is made known to the user.

## [Measurement category - Wikipedia](#)

The relevant standard for instrument manufacturers is EN 61010 -- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use. 61010 is a little more strict than the Low Voltage Directive. It says that 30 Vrms or 60 VDC are dangerous voltages.

## [Isolation and Safety Standards for Electronic Instruments - NI](#)

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This category refers to measurements on primary over-current protection devices and on ripple control units. In a nutshell, the higher the category, the more risk there is of what's known as an "arc blast" - a situation where high voltage can overload a circuit and cause electrical (and physical) damage.

What are Electrical Measurement Categories (CAT III, Cat IV)?

EN 61010-1 Safety requirements for electrical equipment for measurement, control, and laboratory use ... Measurement category: CAT IV 1000V~ ... Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement

TEST REPORT EN 61010-1 Safety requirements for electrical ...

IEC 61010-031:2015 specifies safety requirements for hand-held and hand-manipulated probe assemblies of the types described below, and their related accessories. These probe assemblies are for direct electrical connection between a part and electrical test and measurement equipment. They may be fixed to the equipment or be detachable accessories for the equipment.

IEC 61010-031:2015 | IEC Webstore

IEC 61010-1 Safety Requirements for Electrical Equipment for

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Measurement, Control and Laboratory Use. This standard, Part 1 of IEC 61010, sets the general safety requirements for the following types of electrical devices and their accessories, regardless of where use of the device is intended. ■Electrical testing and measuring instruments

## Measuring and Testing Safely - Electrical connectors and ...

This part of IEC 61010 specifies general safety requirements for the following types of electrical equipment and their accessories, wherever they are intended to be used. a) Electrical test and measurement equipment.

## UL Standard | UL 61010-1

1. IEC 60664-1, Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests 2. DIN VDE 0110, Dimensions of the creepage distances, part 1 section 3.2 3. IEC 61010-1 (UL 61010-1, EN 61010-1), Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1

## Pollution Degree Rating for Electrical Equipment - NI

Although this standard does not incorporate the International

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Electrotechnical Commission (IEC) standards for the safety requirements for electrical equipment for measurement (defined in section IEC 61010), it is the care of duty of the electrical works supervisor to ensure the safety requirements for electrical equipment used on the site for electrical measurement meets the IEC 61010 standards.

## What electrical safety ratings mean - ECD Online

The relevant standard for instrument manufacturers is EN 61010: Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use. EN 61010 is a little stricter than the Low-Voltage Directive. It says dangerous voltages are 30 VAC rms or 60 VDC.

## Isolation and Safety Standards | Evaluation Engineering

Defines safety requirements for HAND-HELD and hand-manipulated current sensors which are for measuring, detecting or injecting current, or indicating current waveforms on circuits without physically opening the current path of the circuit being measured.