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Electrical  
lec 61010

Measurement

Category  
Measurement

Ratings For  
Category

Test  
Ratings For

Test

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electrical  
measurement

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Category  
Ratings For  
Test

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Electrical

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~~Categories - CAT II  
III IV~~

---

Rigel 288+ overview  
& testing to IEC  
60601 & IEC  
62353 How to Use a  
Multimeter for  
Beginners - How to  
Measure Voltage.

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Resistance.

Continuity and Amps

IEC 61010 Standard

Overview with High

Tech Design Safety

How to use a

Multimeter for

beginners: Part 1 -

Voltage measurement

/ Multimeter tutorial

Electrical

Measurement Safety

Webinar What are

CAT (Category)

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Safety Ratings in  
Multimeters? -  
Another Teaching  
Moment | Digi-Key  
~~Fluke 434-II/BASIC  
Energy Analyzer, +/-  
0.5% Accuracy, 0.1V  
Resolution Transcat  
and Fluke Present:  
Electrical  
Measurement Safety  
Seminar~~

---

Basic Standard test  
for electrical

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installation an  
electrician should  
know - Part 1

---

Electrical Safety  
Testing For Medical  
Devices Overview of  
~~61010-1 3rd Edition~~  
Webinar How to Use  
a Multimeter -  
Beginner's Crash  
Course THE BEST  
Multimeter tutorial  
(HD) How to Use a  
MULTIMETER -



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Beginners Guide

(Measuring Volts,  
resistance, continuity

& Amps) ~~Proving~~

~~Dead - Mains~~

~~Electricity~~

---

Electrical Safety in

Medical Devices

(Arabic Narration)

Electrical Test

Equipment Every

Electrician Should

Know Clamp Meters

New & Old for

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Current Measurement

The Best Multimeter

Tutorial in The World

(How to use \u0026amp;

Experiments) Loop

Impedance Testing

~~Voltage Drop in~~

~~Electrical Circuits~~

~~Webinar - ISO 55000:~~

~~Overview of Asset~~

~~Management with a~~

~~focus on Industrial~~

~~\u0026amp; Commercial~~

~~Equipment Webinar -~~

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GracePESDs | Facts  
& Myths of  
Permanent Electrical  
Safety Devices

Electrical  
Measurement Safety  
by Fluke Using the  
CB Scheme to

Access the World  
Market Webinar

Introduction to Field  
Labelling ~~2018 NFPA  
70E Changes~~ Jim  
Phillips, P.E.

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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

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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

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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

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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

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to indicate the ability of an instrument (like the WattNode<sup>®</sup> meter) to withstand voltage spikes without posing a shock hazard to the operator. An instrument should only be used at or below its rated measurement category and voltage.



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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

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STC (Dongguan)

Company Limited 68

Fumin Nan Road,

Dalang, Dongguan,

China.

Test

TEST REPORT

IEC/EN 61010-1

Safety requirements

for ...

TRF No. IEC61010\_D

TRF originator: VDE.

Summary of testing:

The instrument is

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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

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## 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

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equipment. b)

Electrical industrial  
process-control  
equipment c)

Electrical laboratory

equipment. This third  
edition cancels and  
replaces the second  
edition published in  
2001.

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

[IEC Webstore](#)

Under IEC 61010-1

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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

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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

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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



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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

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## Standards for Electronic Instruments - NI

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

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where high voltage  
can overload a circuit  
and cause electrical  
(and physical)  
damage.

Test

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

EN 61010-1 Safety  
requirements for  
electrical equipment  
for measurement,

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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

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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

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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

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for 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

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instru-ments

Measurement

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



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intended to be used.

a) Electrical test and measurement equipment.

Ratings For

UL Standard | UL

61010-1

1. IEC 60664-1,  
Insulation  
coordination for  
equipment within low-  
voltage systems - Part  
1: Principles,  
requirements and

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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

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## Rating for Electrical Equipment - NI

Although this standard does not incorporate the International Electrotechnical Commission (IEC) standards for the safety requirements for electrical equipment for measurement (defined in section

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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

*Page 36/40*

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ratings mean - ECD

Online

The relevant standard  
for instrument  
Category

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

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says dangerous  
voltages are 30 VAC  
rms or 60 VDC.

Category

Isolation and Safety

Standards |

Evaluation

Engineering

Defines safety  
requirements for  
HAND-HELD and  
hand-manipulated  
current sensors which  
are for measuring,

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detecting or injecting current, or indicating current waveforms on circuits without physically opening the current path of the circuit being measured.

Copyright code : 7ac0  
972c3ccc4bbf4a1353

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1a8c9869ea  
Measurement  
Category  
Ratings For  
Test