



# ARCUSUNI

THE UNIVERSAL VOLTAGE TESTER



## Easily readable

Thanks to the transparent display and the integrated piezo tone generator, both visually and acoustically high quality visible and audible signals are generated.

## Cannot be manipulated

The waterproof and dustproof display cannot be opened, which rules out unauthorised intervention – as required by the applicable standards.

## Simple handling

The ARCUSUNI is **aligned centrally**, which greatly improves handling.

## Fast assembly

The plug-in insulating rod enables fast and uncomplicated assembly.

## Reliably type-tested

All of the requirements of the IEC 61243-1:2021 standard are met up to a nominal voltage of **170 kV**.





## ARCUSUNI structure

The ARCUSUNI comprises the handle (5), an insulating rod (4), as well as the head with display (2) and the contact electrode (1).

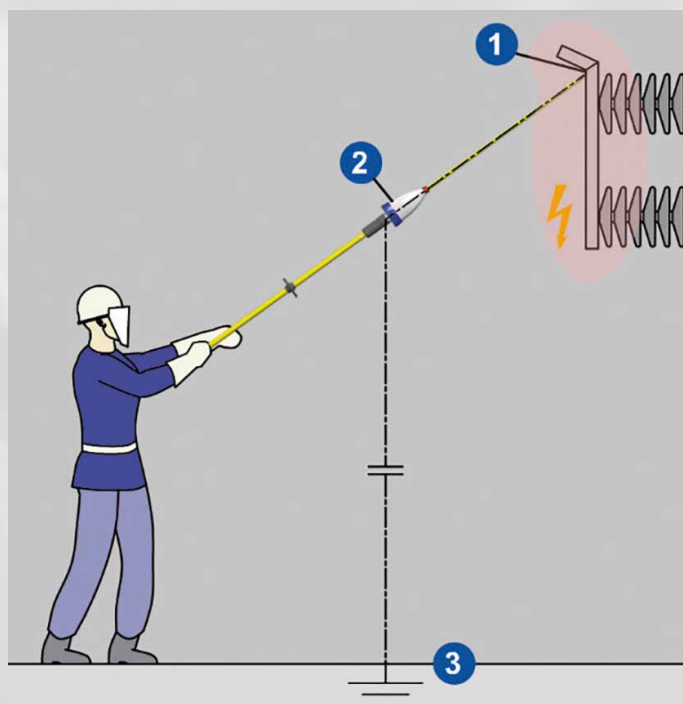
The handle ensures safe handling during voltage testing.

Together with the display, the insulating rod forms the insulating part (length  $L_i$ ). The insulating part creates the insulation and the safe distance required from the system part that is being tested for an absence of voltage.

The display indicates whether voltage is absent by means of acoustic and visual signals.

The contact electrode has an internal thread to house optional accessories (e.g. a bifurcated contact).

## Function



The voltage tester identifies whether there is operating voltage on a system part.

To do this, it measures a very slightly capacitive current flow between the contact electrode under high voltage (1), the display (2) and the ground (3).





# Technical details

## Properties

Parameter	Value
Type	Capacitive voltage tester
Nominal voltage Un	Configurable 10 - 170 kV
Class	S (suitable for switchboards and power lines)
Climate category	N (Normal)
Temperature range	–25°C to +55°C (operation and storage)
Relative humidity	20% to 96%
International standard	DIN EN IEC 61243-1:2021
Mains type	Three and single-phase mains networks with a frequency of 50 Hz
Battery type	9V block battery according to IEC 6LR61 / AM-6

## Handling

Parameter	Value
Assembly	Assembly of the head with insulating rod by means of a plug-in connection
Battery change	Simple battery change without tools

## Storage

Parameter	Value
Storage	Case or bag

## Signals and visualisation

Parameter	Value
Display group	I
Active signal 1	Acoustic signal (Piezo tone generator, 95 dB)
Active signal 2	Visual signal (6 green and 6 red LEDs)

## Self-test

Parameter	Value
Checked components	All electronic components, battery charge status
If there is no self-test	Voltage checker switches off

