

RM 430

Ratio Meter

Datasheet



HAEFELY

Current and voltage – our passion

General Description

The ratio meter type 430 is used for the measurement and check of the transformation ratio of voltage dividers and terminal networks.

The instrument measures the real transformation ratio taking into consideration the influence of the surroundings and including the effect of the measuring cable (which is important especially in the case of damped capacitive voltage dividers).

The connection to the high voltage electrode of the voltage divider and the instrument can be done with a wire of 1 mm diameter. For the low voltage arm the impulse voltage measuring cable shall be preferably used.

The transformation ratio meter has been developed especially for checking-up the transformation ratio of high voltage dividers in the test field.

One banana plug or one BNC output respectively is used for the connection to the voltage divider; one LEMO plug and one BNC plug for the low voltage connection.

By pressing a push-button a sine wave of 1000 Hz is applied and the value of the transformation ratio of the voltage divider is displayed digitally.

The ratio read-out remains during approx. 1 min. on the screen then vanishes automatically.

The selection of the measuring range occurs automatically thus eliminating calculations for the determination of the transformation ratio which are time consuming and subject to errors.

Features	Advantages
<ul style="list-style-type: none">■ Easy to use	<ul style="list-style-type: none">☑ Plug and play, measurement can be done in minutes
<ul style="list-style-type: none">■ Real Ratio measured	<ul style="list-style-type: none">☑ Real ratio including cable and stray capacitances are measured
<ul style="list-style-type: none">■ Special designed for HV dividers	<ul style="list-style-type: none">☑ Allows a regular check of the divider, and guarantee the safety and accuracy of the HV laboratory
<ul style="list-style-type: none">■ Small, portable unit	<ul style="list-style-type: none">☑ Can be stored in a drawer in the HV laboratory to be used any time
<ul style="list-style-type: none">■ Battery powered■	<ul style="list-style-type: none">☑ Easy to connect, no mains cable required for the measurement

Applications

- On site ratio measurement on voltage dividers

Scope of Supply

- Ratio meter type 430
- Charger
- Manual

Technical Data

Block 1	
Measuring Range	1 .. 9999
Ranging	automatic
Max. load	< 10nF, > 5kΩ
Accuracy	± 1%
Calibration Voltage	1kHz, 90Vpp sine wave
Display	4 digits
Overflow indicator	yes
Supply	Built-in battery with charger
Duration	100 measurements / charge
Battery check	yes

Environmental, Mechanical and Power Supply	
Operating temperature	5°C .. 40°C
Humidity	5 .. 95% r.h.
Dimensions (W x D x H)	190 x 137 x 60 mm
Weight	1 kg

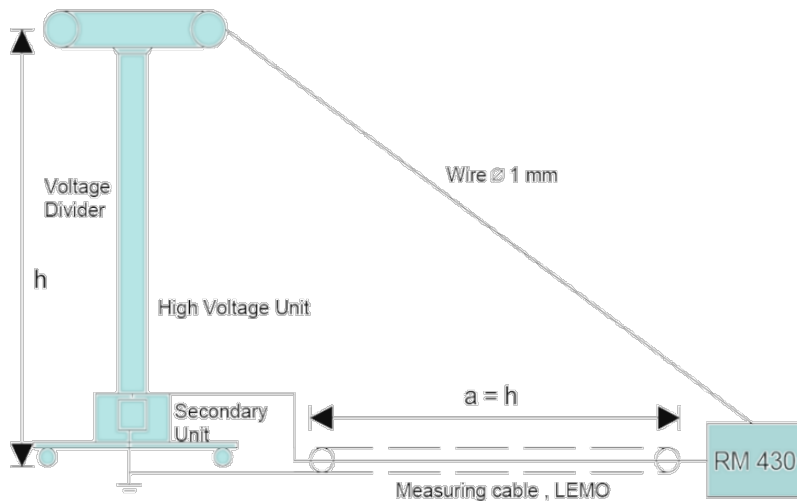


Fig. 1 Connection diagram for measuring a voltage divider

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Current and voltage – our passion



HIGH VOLTAGE



INSTRUMENTS



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