

Sonel MIC-10k1 / 5050

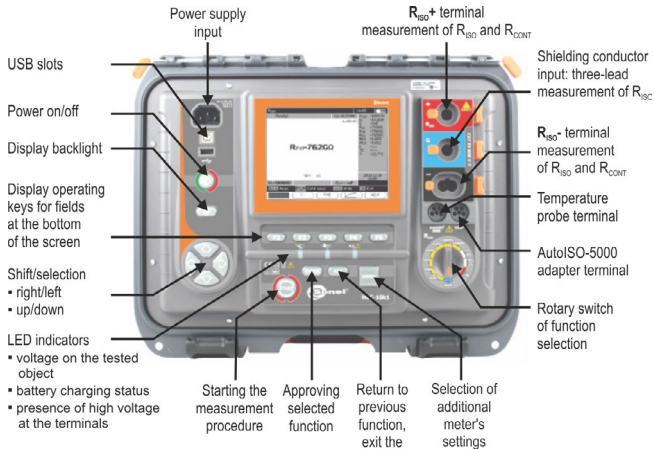
Insulation Resistance Meter • QuickStart



Connecting voltage higher than 750 V between any of the test terminals may damage the meter and cause a hazard to the user.



v2.00 | 24.11.2020



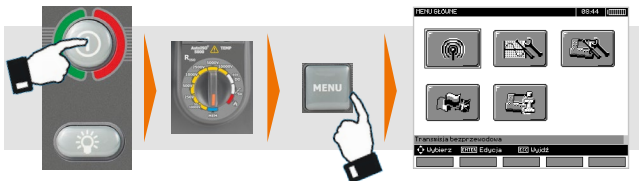
WARNINGS AND INFORMATION DISPLAYED BY THE METER

	Test voltage is present on terminals of the meter.	
	You must consult the manual.	HILE !
Ready!	The meter is ready for measurement.	
NOISE!	This message displayed during or after the measurement indicates major noise in the system during the measurement. The measurement result may be affected by additional uncertainty.	
		AUTOZERO
		Resistance compensation completed for test leads.
		Calibration coefficients error
		Contact manufacturer's authorised service point to re-calibrate device.
		Battery status
		Battery fully charged.
		Battery discharged.
		Battery discharged. Charge battery.
LIMIT !!	Activation of current limit. The symbol displayed is accompanied by a continuous beep.	

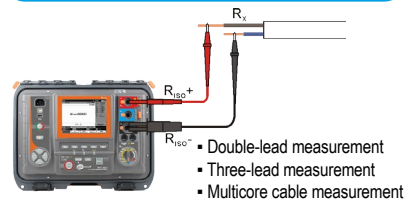


First steps

1 Turn on the meter, select and configure the test



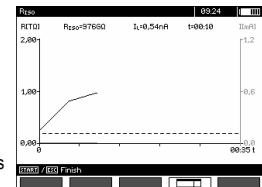
2 Connect the meter



3 Start the measurement



Observe the resistance and current as current readings or chart (F4).

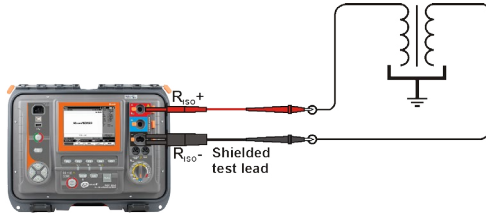


Double-lead measurement

Applies for modes:

insulation resistance measurement R_{ISO} • measurement with increasing voltage SV • Dielectric Discharge Indicator DD • Damage Indication (After-burning) • low-voltage resistance measurement

Connect the meter to the tested object.



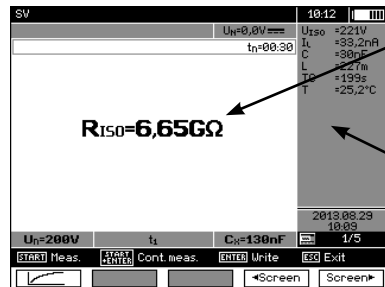
Run the measurement with **START** button.

- Basic measurement: press and hold **START** for 5 seconds.
- Fast measurement: press both **START** and **ENTER**.



To interrupt the measurement press **ESC**.

Read out the result.



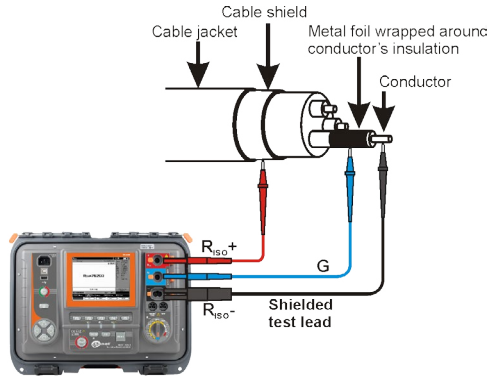
Main result

Additional results

Three-lead measurement

Eliminates the influence of surface resistance in transformers, cables etc.

Connect the meter to the tested object.



U_{ISO} test voltage

I_L leakage current

C electric capacity of tested wire

$AB1, AB2$.. dielectric absorption coefficients

DAR dielectric absorption coefficient

PI polarization index

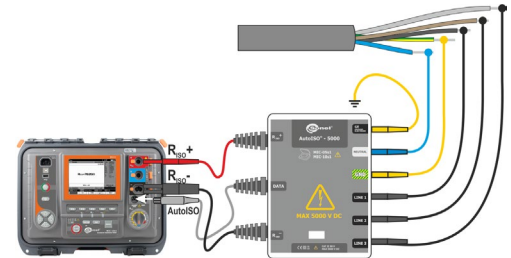
L length of the tested wire

TC time constant, $TC = R_{ISO} \cdot C$

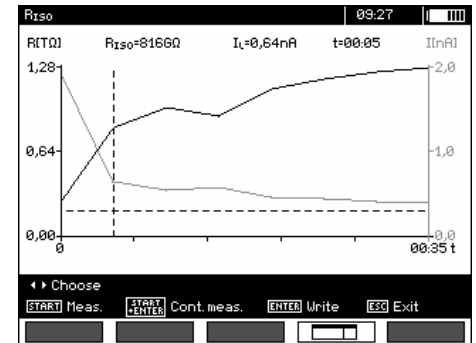
T temperature of the tested object

Multicore cable measurement

Connect the AutoISO-5000 adapter to the meter and tested object.



Saving to the memory



After the measurement press **ENTER**.



Choose the measuring point (cell) with buttons \uparrow \downarrow .