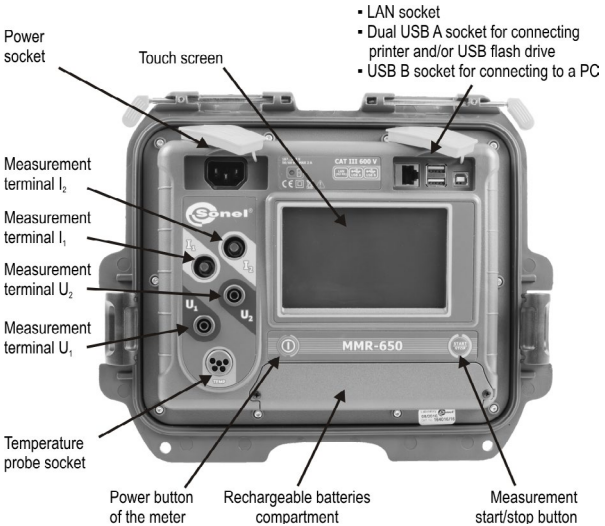
Sonel MMR-650

Winding Resistance and Low Resistance Meter

v1.00 | 14.11.2018



SYMBOLS DISPLAYED BY THE METER

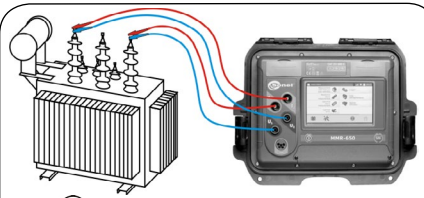
	Memory
	Settings
	Return to the main menu
	Help
	Adding a client, object or measuring point
	Searching for an object or measurement point
	Entry to client objects
	Entry to client edition, object or measurement point with a possibility of changing data
	Fast entry deletion on the on-screen keyboard
	Deletion of a measurement point, object or client
	Measuring Mode
	Recording mode

	Measurement setup mode
	Saving to memory
	Report print
	Temperature measurement, reference temperature
	Presentation of measurement results in the form of a time chart
	Exit from the option
	Wi-Fi signal strength
	There was a limitation of the measuring current to a value lower than that ensuring maximum accuracy
	Test leads interchanged
	High level of noise (interference), measurement possible with additional uncertainty
	High level of noise (interference), measurement possible without defining uncertainty

First steps

1 Turn the meter on.

2 Select a measurement function and configure it.



3 Connect the meter to the tested object.

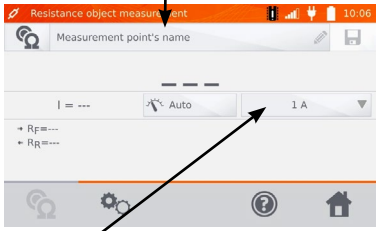
4 Run the measurement.

5 Read out the result and save it to the memory.

2 Testing resistance objects

Connect the meter to the tested object.

If you want to save the result to the memory, type the name of the measurement point.



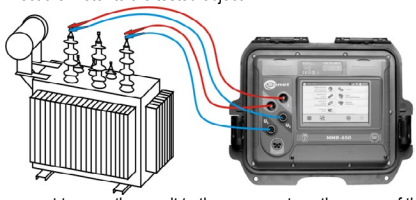
Set maximum value of the measuring current.

Run the measurement using **START/STOP** button.

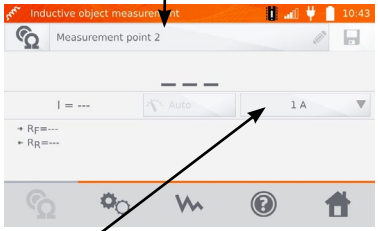
After few seconds the result will appear.

2 Testing inductive objects

Connect the meter to the tested object.



If you want to save the result to the memory, type the name of the measurement point.



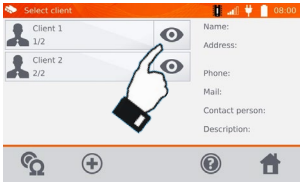
Set maximum value of the measurement current.

Run the measurement using **START/STOP** button.

Wait for the measurement result.
For really big transformers it can take few minutes.

5 Saving to the memory

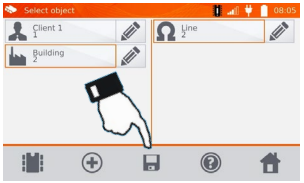
When the measurement ends select .



Select a client by pressing next to his name.

Select an object (subobject) by pressing its name.

Select a measurement point by pressing its name (a red border will appear).



Save the result by pressing .

R_0.....resistance at reference temperature
R_F.....resistance at the measuring current flowing in the assumed positive direction
R_R.....resistance at the measuring current flowing in the assumed negative direction

T_a.....ambient temperature
T_1.....object temperature
T_o.....reference temperature
..upper / lower resistance limit
α.....temperature coefficient of resistance