

The invention relates to the measuring equipment and may be used for measurement of linear resistance of the insulated wire.

The device contains a generator of measuring signal, having one output connected to the common wire, the first capacitive contact, placed adjacent to the measuring wire, an amplifier, having its input connected to the first capacitive contact, a controllable resistor and a converter of negative resistance, having one output connected to the common wire and the input terminals – to the controllable resistor, as well as a phase-sensitive null-detector, having its output connected to the input of the null-indicator, the signal input – to the output of the amplifier, and the reference input – to the point of the negative resistance converter circuit, wherein the voltage is in the same phase with the current passing through the measured wire. The device additionally contains the second and the third capacitive contacts, placed adjacent to the measuring wire and connected, respectively, to the second output terminal of the generator and to the second output terminal of the negative resistance converter.

The first capacitive contact is placed between the second and the third capacitive contacts, the placement of the first contact being determined by the distance from it up to the third contact.

Claims: 2

Fig.: 2