

The invention relates to the field of electrical measurements and may be used for measuring the linear resistance of the insulated wire without breaking down the insulation.

The device comprises a measuring signal generator (1), having one output terminal connected to the common wire, first (3) and second capacitance contacts (6), placed in immediate proximity to the measured wire, an amplifier (4) having its input connected to the first capacitance contact (3), a negative resistance converter (5), having its output terminals connected to the second capacitance contact (6) and to the common wire, correspondingly, a controllable resistor (7), connected to the input terminals of the negative resistance converter (5), a phase-sensitive null detector (8), having its signal input connected to the output of the amplifier (4) and its reference input to the point of the negative resistance converter (5), into which the signal has the same phase as in the measured wire, as well as a null-indicator (9), connected to the output of the null detector (8). The device additionally comprises a capacitor (2), connected between the second output terminal of the generator (1) and the first capacitance contact (3), and the capacitance contacts are placed at a distance from each other equal to the length of the measured wire segment.

The result of the invention consists in providing a high accuracy of measurement of the insulated wire linear resistance without breaking down the insulation.

Claims: 1

Fig.: 1

