

The invention relates to measuring equipment and can be used for automatic measurement of impedance components of liquid products in order to determine their quality.

The liquid product impedance meter comprises a signal generator (1), connected in series to a resistor (2), an impedance converter (6) with independent regulation of active and reactive components of the reproduced impedance, provided with two output and two input contacts, an amplifier (7), having one input contact connected to the second contact of the resistor (2) and the second input contact together with one output contact of the converter (6) and an output contact of the generator (1) – to the common wire, two comparators (8, 9), having their inputs connected, respectively, to the output contact of the amplifier (7) and to a reference point of the converter (6), in which the signal phase coincides with the phase of the voltage drop on the reactive component of the reproduced impedance, and a control unit (10) with two outputs, connected to the input contacts of the converter (6), and two inputs, connected to the outputs of the comparators (8, 9). The meter further comprises an electrochemical cell, consisting of two metal plates (3, 4) with an area S , arranged in parallel in a glass vessel (5) for the measured liquid product (11) at a distance L from one another, one of which is connected to the second contact of the resistor (2) and the second – to the second output contact of the converter (6), wherein the volume of the measured liquid product (11) in the glass vessel (5) is selected in such a way as to cover the metal plates (3, 4).

Claims: 1

Fig.: 1

