

**95-0044**

The invention relates to electric measuring technics and may be used for assuring a 90 grades of phase displacement between the current and the tension in the measuring circuits.

The aim of the invention is the extension of the operating range of frequencies keeping the 90 grades phase displacement between the input current and the output tension.

The device consists of mutual inductance coil, a current transformer a noninductive resistor and a capacitor in this case the primary winding of the mutual inductance coil is connected with the primary winding of the current transformer, and the second winding of the mutual inductance coil - is oncoming to the second winding of the current transformer, the beginning of the winding thereof and the end of the primary winding thereof and the end of the primary winding of the mutual inductance coil are used for connecting to the current source.

The noninductive resistor is connected to the joint point of the second winding of the mutual inductance coil with the second winding of the current transformer and by the means of a capacitor is connected with the end of the second winding of the current transformer. The output tension is taken between the end the primary winding of the mutual inductance coil and the joint of the capacitor and the noninductive resistor. Such a junction of the device elements assures the same law of variation of the compensating and compensated angles from the input current frequency and at the same time it extends the operating range of frequencies, in the limits of which is kept a 90 grades phase displacement between the input current and the output tension.