The invention relates to the fields of measurement technology and radioelectronics and can be used for reproduction of high-precision virtual impedances with independent regulation of components in polar coordinates.

The impedance converter comprises an operational amplifier (1) with two inputs and one output, a code-controllable variable resistor (3), connected with the poles respectively to the inverting input and to the output of the operational amplifier (1), a fixed resistor (4), connected between the noninverting input of the operational amplifier (1) and the common wire, a differential amplifier (5) with the unit amplification coefficient, having its inputs connected, respectively, to the output and to the noninverting input of the operational amplifier (1), a code-controllable phase shifter (6) with the possibility of controlling the phase in the range of values 0°…360° and with the unit amplification coefficient, having its input connected to the output of the differential amplifier (5), and two terminals (2 and 8), connected, respectively, to the inverting input of the operational amplifier (1) and to the common wire. The converter further comprises a phase corrector (7) with the installed value of the phase shift, equal to the negative phase shift error value acquired in the signal passage through the converter stages, having its input connected to the output of the phase shifter (6) and its output – to the noninverting input of the operational amplifier (1).

Claims: 1
Fig.: 1