

The present invention can be used for determining a possibility to insert energy meters in the secondary winding circuits of voltage transformers. The proposed device for measuring voltage drop in the secondary winding circuit of a voltage transformer contains two isolating transformers, a measuring and computing unit, and a voltmeter. The terminals of the primary windings of the insulating transformers are connected to the corresponding terminals of the secondary winding circuit of the voltage transformer. The secondary windings of the isolating transformers are connected inversely in series. The inputs of the measuring and computing unit are connected to the corresponding terminals of the secondary windings of the isolating transformers and, via a measuring transformer, to the corresponding terminals of the secondary winding circuit of the voltage transformer. The measuring and computing unit contains three amplifiers, an integrator, a summing unit, and a null comparator. The input of the first amplifier is connected to the input of the measuring and computing unit to which the secondary winding of the measuring transformer is connected. The input of the second amplifier is connected to the input of the measuring and computing unit to which the secondary windings of the isolating transformers are connected. The input of the third amplifier is connected to the output of the integrator. The outputs of the amplifiers are connected to the corresponding inputs of the summing unit. The output of the summing unit is connected to the input of the null comparator. The voltmeter is connected to the output of the first amplifier.