

Four-electrode device for measuring the volt-ampere characteristics of liquids and gels using a passive method consists of a power supply, an ammeter, a four-electrode cell with two current electrodes and two voltage electrodes, and a voltmeter. The first and second voltage electrodes in the direction of the current are flat parallel metal grids of the same material, perpendicular to the direction of the current and to the cylindrical surface of the four-electrode cell, with a size corresponding to the cross-sectional area of this cell. The voltage measurement unit contains a variable compensation potentiometer connected in parallel with the voltmeter and a second power supply of controlled change of constant voltage, electrically connected to the voltage electrodes: the negative pole to the second voltage electrode, and the positive pole to the first voltage electrode via a galvanometer.