

Method for measuring phase shift involves sampling the signals under study, converting them into digital form, and then extracting the sine and cosine reference components of each signal, based on which the phase shift is calculated. The sine and cosine reference components of the signals are determined by solving a system of at least three equations, the vector of free terms of which is calculated as the scalar product of the signals under study with auxiliary reference sinusoidal signals, each of which has a unit amplitude and different frequencies that do not coincide with the frequency of the signals under study.