

Method for determining dynamic parameter of mobile firefighting unit operator involves forming a test-impact on mobile firefighting unit operator in the form of a stepwise signal and measuring the parameters of the signal that characterize the response of mobile firefighting unit operator to this test-impact. At a time point that does not exceed the duration of the transient process, the rate and acceleration of the signal change characterizing the response of mobile firefighting unit operator to the test-impact are simultaneously determined. Dynamic parameter of mobile firefighting unit operator is determined using the expression:

$$\tau = \text{abs}[U(t)a^{-1}(t)],$$

where $U(t)$, $a(t)$ - the rate and acceleration of the signal change characterizing the reaction of mobile firefighting unit operator to the test-impact at time point t , which does not exceed the time of the transient process.