

## 1.06. SYSTEM FOR RECORDING THE PARAMETERS AND DETERMINING THE FAULTS ON THE FEEDERS OF AC/DC CATENARY SYSTEM ON THE RAILWAYS

The system is designed to record current and voltage signals in catenary systems of alternating (direct) current and discrete signals at normal, pre-emergency, emergency and post-emergency operational modes of equipment on the railway substations; analyze a development of emergency events; evaluate a performance of relay protection devices; locate a fault in short circuits on AC/DC feeders; display information in the form of text messages, graphs and tables; and transmit the information via telephone and dedicated channels, and via GSM network.



It consists of the recorders of AC (DC) and voltage signals, and a device of upper level – PC with special interface modules.

An error of a distance determination to the fault location on AC/DC lines is no more than  $\pm 2\%$  of the line length.

*The system is implemented on more than 150 railway substations.*