

THE RECEIVER FOR SEARCH OF DAMAGES IN POWER CABLES "POISK-2006"



The receiver POISK-2006 is intended for search of the any kind damages in any power cables with voltage of 0,4-35 kV by the electro-acoustic and induction methods.

The receiver can be used for:

- determination by an electro-acoustic method of a place of damage of underground power cable while the spark break-down of a thread on a sheath;
- determination by an electro-acoustic method of a place of damage of underground power cable while the single phase short circuit of a thread on a sheath;
- determination of the cable from a bunch of cables by the electro-acoustic method;
- determination of the places of poor contact of sheath with the cable head;
- determination of the cable run and the search of the damaged places on underground and open cables by the induction method.

MAIN TECHNICAL CHARACTERISTICS:

Methods of search of damage	electro-acoustic pulsed and induction
Indication	oscillographic (on the graphic LCD) and acoustic (on the sound in headphones)
Max cable underground depth at use of an electro-acoustic method, m	4
Accuracy of definition of a place of damage of cable by an electro-acoustic method (at cable underground depth 1m)	no more, than $\pm 0,25$

ACOUSTIC AMPLIFIER PARAMETERS

Gain	adjustable from 1 to 16000
Pass-band on level 3 dB, Hz	170 -3000
Input resistance, MOhm	$2 \pm 0,2$
Noise level (scope), led to an input, μV	no more, than 6
Max amplitude of not deformed output signal, V	2

CYNCHRONISATION MODULE PARAMETERS

Amplifier gain	adjustable from 0 to 2500
Pass-band on level -3 dB, Hz	1 -20
Sensitivity to a pulse magnetic field, mA/m	no more, than 5

INDUCTION RECEIVER PARAMETERS

Adjustment frequencies, Hz	512; 1024; 2048
Extreme sensitivity to the magnetic field at the signal-to-noise merit 6 dB, $\mu A/m$	no more, than 50
Pass-band of digital filter on the level -3 dB, Hz	no more, than 2
The limits of frequency adjustment of digital filter, %	$\pm 0,2$

POWER SUPPLY

Operating supply voltage, V	6,3
Min supply voltage, V	5,5
Consumption current, mA, no more, than:	
at work without LCD illumination	140
at work with LCD illumination	240
Operation time without additional charge, hour	no less, than 10
Accumulator full charge time, hour	10-14

The receiver is supplied from the tight lead accumulator with the voltage 6 V, capacity 4,5 Ah
--

In the receiver there is a possibility of the operative control of supply voltage

In the receiver there is a build-in charger with supplying from the power network 220V/50Hz
