

ERA-MAX ELECTROMAGNETIC SURVEY SYSTEM

ERA-MAX is a general-purpose electromagnetic instrument designed for electrical survey on any surface

- ◆ eight types of input devices
- ◆ noncontact and magnetic methods of measurement

PURPOSE

- ◆ Engineering survey for construction and inspection of active pipelines, roads, hydraulic facilities
- ◆ Search and exploration of metallic and nonmetallic mineral deposits;
- ◆ Ecology; archeology
- ◆ Inspection of house footing and urban underground utilities

SURVEY METHODS

- Electrical exploration - resistivity method (vertical electrical sounding, profiling)
 - ◆ Charge method
 - ◆ natural electric field method
 - ◆ inductive methods
- Geomagnetism – vector measuring of the earth magnetic field
- Noncontact probing of protective currents in pipelines
- Pipe and cable locator



SPECIFICATIONS

Climatic Performance	IP-65
Temperature Range	-30 to +65 °C

ERA-MAX RECEIVER

Operation Frequencies	DC, 0.61, 1.22, 2.44, 4.88, 50, 100, 625; 1250; 2500 Hz	
Input Voltage Range, DC	100mkV±4 V (at Rinp 100 mOhms) 10 mkV±4 V (at Rinp 10mOhms)	
	0,61; 1,22; 2,44; 4,88, 50, 100, 625; 1250; 2500 Гц	0,1 mkV - 2,8 V
Input Active Resistance	100 mOhms (DC) 100 mOhms (min) (AC)	
Input Capacitance	15 pF (max) (AC)	
Pass band (specified by operator)	(2-3) % / (4-6)% (4.88, 50, 100 Hz) 0,1 % / (0.2)% (625, 1250, 2500 Hz)	
Interference Suppression (50-60 Hz and radio frequencies)	100 dB (DC); 100 dB (0.61, 1.22, 2.44, 4.88, 625, 1250, 2500 Hz)	
Memory Capacity	5200 readings	
Extraneous DC Voltage Compensation	Automatic	
Interface	RS-232C	
Basic Reduced Measurement Error	1 % (Input Voltage, DC) 4 % (ratio of input voltage to generator output current); (for 0.61; 1.22; 2.44; 4.88, 625; 1250; 2500 Hz)	
Supply Voltage	12 V, Built-in Accumulator Unit	
Consumption Current	30 mA (max.)	
Internal Power	Supply Accumulator Unit - 2000 mA AA (R6)	
Weight; Overall Dimensions	1.2 kg 160x52x200 mm	
Connected Input Receivers	- Grounded Receiver Electrodes - Active Electrodes - Air Electric Antenna	- Trail Receiving Line - Magnetic Antenna – Ferroprobe - Induction Magnetic Antenna

ERA-MAX-LHF TRANSMITTER

Output Regulated Current	1, 2, 5, 10, 20, 100, 200 mA
Voltage	to 1000 V, (DC)
Operation Frequencies	0, 1.22, 2.44, 4.88, 625, 1250, 2500 Hz
External Power Supply	12-24 V
Built-in Accumulator Unit	2 AH, Panasonic
Maximum Output Power	40 BA (max)
Weight; Overall Dimensions	2.3 kg (Including Internal Accumulator) 160x160x60 mm
Output Current Form	Meander
Output Generators	Grounded Electrodes; Closed Loop; Trail Lines ("625 Hz)
Rotating Field Mode	Available (if two generators used)

1 YEAR GUARANTEE. POST-WARRANTY SERVICE