

SibER 48

v.1.4



General

Electrodes	48 + 2 remote (Tx and Rx)
Dimensions	42 x 34 x 23 cm
Weight	11 kg
Internal memory	2 Gb
Internal supply	12 V, 7 Ah
External supply	12 V
Display	12", 240 x 128
External interface	USB
Close lid protection	IP 64
Open lid protection	IP 54
Operating temperature	-20 ÷ +40 °C

Internal transmitter (Tx)

Max. output current	1 ÷ 2000 mA
Max. output voltage	500 V
Max. output power	200 W
Short circuit protection	Yes
Temperature detector:	Yes

Receiver (Rx)

Input impedance	10 MOhm
Input voltage range	+0.1 mV ... +10.5 V; +10.5 V ... +250 V
50/60 Hz rejection	65 db
ADC bits	24 bit
Accuracy	better than 1 %
Channels	1 for input voltage + 1 for output current
Overvoltage protection	1 kV

Operation modes

Electric resistivity tomography	Yes
Vertical electrical sounding	Yes
Electrical profiling	Yes
Resistivity	Yes
Induced Polarization (IP)	Yes
Tx pulse length	240 ms, 500 ms
Tx pause length	20 ms ... 1 s

MULTI-ELECTRODE ELECTRICAL RESISTIVITY AND INDUCED POLARIZATION IMAGING INSTRUMENT.

Arrays

- Wenner (alpha, beta, gamma),
- Schlumberger,
- Inline Dipole-Dipole,
- Forward Pole-Dipole,
- Backward Pole-Dipole, Pole-Pole

Profiles could be continued indefinitely by moving the first cable segment of the first layout to the last place in the next layout.



SibER Instruments

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It is possible to use several parallel profiles for study three-dimensional objects

Profile 1

Profile 2

Profile N

BUILT-IN SOFTWARE

- Program the switches for 2D Tomography
- Ensure the safety of data when power failure
- Perform control for each electrodes
- Provides flexible equipment control

Measure Data Sequence System

Start
Resume
Options
Check

No	AB/2	MN/2	R [Ω]	U [mV]	I [mA]	Q [%]	P [Ω·m]
1	1.50	0.50	18646	239075	12.82	0.10	117161
2	2.50	0.50	18633	239218	12.83	0.13	351240
3	3.50	0.50	18637	239171	12.83	0.10	702615
4	4.50	0.50					
5	5.50	0.50					

/seq/s2d:	Sequence info
wa.s2d	Measures 215 [00:12:54--00:12:54]
wb.s2d	Array type DIPOLE-DIPOLE
wg.s2d	Sequence type SINGLE
sh.s2d	Spacing <a> 5.00 m
dd.s2d	First electrode 0.00 m
pd.s2d	Spacing <d> 1 x a
pp.s2d	Level count 5
	Level step 1
	Overlap
	1 5 10 15 20 24
	25 29 34 39 44 48

94%

100%

PC SOFTWARE SKILL TOOLS

- Program the switches for 2D Tomography
- Primary data processing
- Export data to common formats (IPI2Win, Res2dInv, Res3dInv)

