



DISTRIBUTOR:



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Available Models

- Electrical imaging Mod. 16G-N
- Combined System Mod.16SG24-N (electrical imaging+24 channel seismograph)

12 channel versions available on request

Available accessories

Cables and accesories for electrical imaging & seismics

Accessories for VES with 4 electrodes

Software for 2D & 3D electrical imaging data inversion, induced polarization, VES and seismics



P.A.S.I. Electrical Imaging System Mod.16G-N

P.A.S.I. Electrical Imaging System Mod. 16G-N is not only characterized by its innovative design and its simplicity of use. With the possibility to be implemented with the 16S seismograph (so to have, combined in the same instrument, two powerful and sophisticated systems for a detailed environmental analysis) it really becomes the reliable solution for yours field applications.

Thanks to the large 10.6" LCD touch screen, the user interface results particularly immediate and complete at the same time.

The logical steps proposed for setting each kind of profile (electrical resistivity, chargeability or induced polarization) by the sophisticated acquisition software will allow the user to always take the situation under control.

All data are then saved on the internal hard disk, ready for a fast transfer to PC via USB for the subsequent data processing.

Finally, thanks to the complete and automatic test procedures to verify the Link Boxes, the connections among the electrodes, the diagnostic procedures and the possibility to look directly in real time at the measured values, it is now very easy to acquire any kind of electrical imaging data in the field.

Applications

- detailed investigations at small depth for the identification of areas where pollutants are diffused
- archaeological explorations
- paedological prospecting
- monitoring of areas intended for dumping use
- grounding control
- studies of salt water contamination in fresh water layers

Setting the acquisition parameters (left);
 real time-data display table (below);
 Mod. 16SG24-N (right)

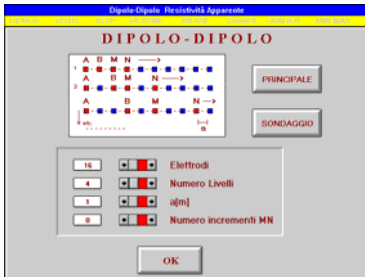
n	VV[0]	Es[A]	Res [ohm]	SP[ohm]	A	M	N	B	ρC
1	4.12e+01	50.000	5.17e+03	41160.00	1	2	3	4	6.29e+00
2	1.74e+01	50.000	2.19e+03	17260.00	2	3	4	5	6.29e+00
3	3.90e+01	50.000	4.90e+03	38960.00	3	4	5	6	6.29e+00
4	3.09e+01	50.000	3.88e+03	30890.00	4	5	6	7	6.29e+00
5	3.35e+01	50.000	4.25e+03	33920.00	5	6	7	8	6.29e+00
6	4.58e+01	50.000	5.75e+03	45760.00	6	7	8	9	6.29e+00
7	3.21e+01	50.000	4.03e+03	32080.00	7	8	9	10	6.29e+00
8	1.36e+01	50.000	1.70e+03	13550.00	8	9	10	11	6.29e+00
9	3.23e+01	50.000	4.06e+03	32290.00	9	10	11	12	6.29e+00
10	2.95e+01	50.000	3.71e+03	29510.00	10	11	12	13	6.29e+00
11	2.88e+03	50.000	3.57e+02	28450.00	11	12	13	14	6.29e+00
12	2.73e+01	50.000	3.43e+03	27280.00	12	13	14	15	6.29e+00
13	4.65e+01	50.000	5.90e+03	46840.00	13	14	15	16	6.29e+00



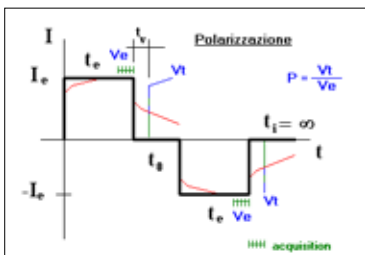
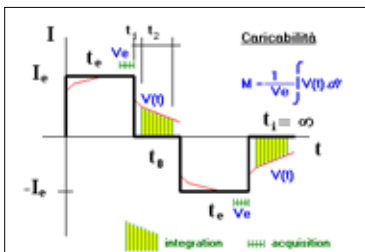
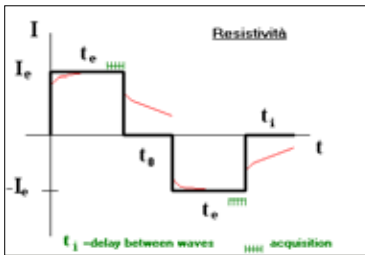


Main functions

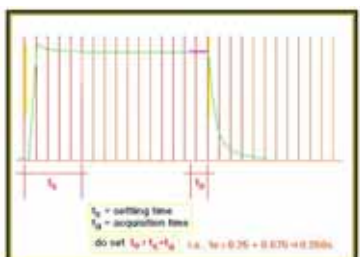
- National Instruments® acquisition boards
- 10.6" LCD touch screen
- Via Eden processor up to 1GHz
- 32 bit operating system and software
- Networking and diagnostic board
- 60 Gb internal HD
- Data download to PC via USB2
- Automatic gain settings (autoranging)
- Automatic suppression of self potentials
- Automatic calibrations: Double offset calibration
Input calibration on reference voltage
Gain calibration
- Multielectrode modular system (from 16 to 256 electrodes)
- Automatic test procedures for the Link-box operating ability, the correct connection of electrodes and diagnostics.
- Management of energizer and polarization reversal from the central processing unit
- Design of energetic wave
- Display of GTDT (Ground Time Domain Test) for a correct programming of wave
- COUPLING function for the check of spreading electrodes
- ROLL-ALONG for the realization of continuous profiles with a minimum of 32 electrodes
- Linear and logarithmic PSEUDOSECTION



Above: acquisition parameters set up window
Below: examples of energization curves for resistivity, chargeability and IP profiling



Below: GTDT special function (Ground Time Domain Test) for a proper design of the energization wave



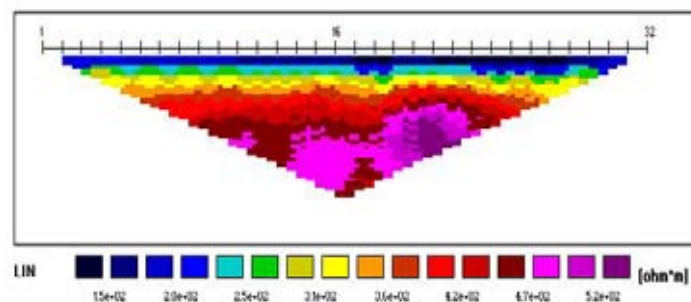
Available Models

Model	Code
16G-N	SIS-301-000

Possible Upgrade

from Model	To Model	Bit	Seismic channels	Electrical Imaging
16G-N	16SG24-N	24*	+24	-

* with oversampling and postprocessing



An example of linear pseudo-section you can display directly on 16G-N (Studio Marsich, Trieste, Italy)

2D Data inversion obtained with RES2DINV software (Waddel & Barton, 1955, Seeing beneath Rathcroghan, Archaeology Ireland, vol.9, No.1,38-41)

