

Resistivity Data Acquisition System

Datem has designed and manufactured a range of Shallow and Deepwater Resistivity Data Acquisition Systems intended for undertaking resistivity surveys of sub sea soils.

The systems work on the principle of passing a high current from one contact on a streamer cable, through the soil to a return contact. Arrangements of additional contacts are used for taking electrical measurements in relationship to the current path. The resulting calculated resistance readings are used to determine the soil composition.



Technical Specification

Operating	
Water Depth	2500metre
Weight in air	70kg
Power Supply	
Electrical Power	240 V ac single phase 50/60Hz
Fused Rating	Input 6.3A
Maximum injected current	25A@ 48V
DC Switcher	
Maximum voltage rating	100V dc
Maximum current rating	30 Amps
Data Acquisition	
Power Supply Requirement	±12V dc 65mA current draw
Microcontroller	8MHz Clock, ROM 8K, EEPROM 512 Bytes, RAM 512 Bytes, Flash upgradeable, ISP Programmable
EEPROM Data Retention	>10 years.
ADC resolution	16bit set over ±5V input range
Filter	
Power Supply Requirement	±12 to ±15V dc 110mA draw
Centre Frequency	1Hz
Cut Off Frequencies	<0.4Hz and >10Hz

Also Available

Field Calibration Checkers, De-Airing Rigs, Cones for 3rd Party Systems, Neptune 5000 Heavy Duty CPT, 5cm² SmartCone

Datem, your perfect partner for Engineering Solutions

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