Canadian Manufacturer of Geophysical Instrumentation since 1976
Sales, Rental, Customer Service, R&D and Field training
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IP Receiver Model GRX8-32 with PDA

Features :

- 1 to 8 channels expandable to 16, 24 and 32
- 8 simultaneous poles/dipoles expandable to 32
- Real-time data and automatic data stacking
- Link to a PDA by Bluetooth or RS-232 port
- Screen-graphics: decay curves, resistivity, chargeability
- Automatic SP compensation and gain setting
- 20 programmable chargeability windows
- One 24 bits A/D converter per channel
- Gain from 1 to 1,000,000,000 (10^8)
- Robust, portable and operable in direct rain

GRX8-32: This new receiver is a compact and low consumption unit designed for high productivity Resistivity and Induced Polarization surveys. It features high ruggedness allowing to work in any field conditions.

Reception poles/dipoles: 8 simultaneous channels expandable to 32, for dipole-dipole, pole-dipole or pole-pole arrays.

Programmable windows: The GRX8-32 offers twenty fully programmable windows for a higher flexibility in the definition of the IP decay curve.

User modes available: Arithmetic, logarithmic, semi-logarithmic, Cole-Cole and user define.

IP display: Chargeability values, Resistivity values and IP decay curves can be displayed in real time. The GRX8-32 can be used for monitoring the noise level and checking the primary voltage waveform.

Internal memory: The memory of 64 megabytes can store 64,000 readings. Each reading totalizes one kilobyte and includes the full set of parameters characterizing the measurements on 8 channels. The data is stored in flash memories not requiring any lithium battery for safeguard. The memory can hold many days worth of data.

SPECIFICATIONS

Number of channels: 1 to 8, expandable to 32
Survey capabilities: Resistivity and Time domain IP
Twenty chargeability windows: Arithmetic, logarithmic, semi-logarithmic and user defined
Synchronization: Automatic re-synchronization process on primary voltage signal
Noise reduction: Automatic stacking number
Computation: Apparent resistivity, chargeability and standard deviation
Size: 41 X 33 X 18 cm (16 X 13 X 7 in)
Weight: 6 kg (13.2 lb)
Enclosure: Heavy-duty Pelican case, environmentally sealed
Serial ports: RS-232 and Bluetooth to communicate with a PDA
Temperature range: -40 to +60°C (-40 to +140°F)
Humidity range: Waterproof, operable in direct rain

POWER

Power: 12 V rechargeable batteries. Over 12 hours nominal operation at 20°C; additional batteries mounted internally or external battery input for extended operation in cold climates.

ELECTRICAL CHARACTERISTICS

Ground Resistance: Up to 1.2 MO
Signal waveform: Time domain (ON+, OFF, ON-, OFF)
Time base: 0.5, 1, 2, 4 and 8 seconds
Input impedance: 10^3 Go primary voltage less than 5 V
5 Mo primary voltage more than 5 V
Minimum detectable signal: 5 nV
Primary voltage: ±10 uV to ±40 V for any channel
Input: True differential for common-mode rejection in dipole configuration
Voltage measurement: Resolution 1 µV
SP offset adjustment: ± 5 V, automatic compensation through linear drift correction per steps of 150 µV
Filter: Eight-pole Bessel low-pass 10 Hz, Four-pole notch 50/60 Hz

RECOMMENDED PDAs

The JETT.CE
The Allegro CX mobile

Operating system: Windows CE
Using Bluetooth or RS-232 option

Allegro CX mobile PDA computer

PURCHASE OPTION

50% of the rental fees up to a maximum of 4 months can be credited towards the purchased of the rented instrument.

RENTAL PERIOD

Starts on the day the instrument leaves our office in Quebec to the day of its return in our office.

WARRANTY

All GDD instruments are covered by a one-year warranty. All repairs will be done free of charge at our office in Quebec, Quebec, Canada.

SERVICE

If an instrument manufactured by GDD breaks down while under warranty or service contract, it will be replaced free of charge during repairs (upon request and subject to instruments availability).

OTHER COSTS

Shipping charges, customs fees and taxes are extra, if applicable.

PAYMENT

Visa, Mastercard, Amex, Bank Drafts or checks.

INSTRUMENTATION GDD INC.

3700, boul. de la Chaudière, suite 200
Québec (Québec)
Canada G1X 4B7
Phone: (418) 877-4249
Fax: (418) 877-4054
E-Mail: gdd@gddinstrumentation.com
Web Site: www.gddinstrumentation.com

Specifications are subject to change without notice.

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