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IP Receiver - Description

The IP receiver Model GRX8-32 with PDA

"IP Receiver Model GRx8"

The GDD IP Receiver is a new compact and low consumption unit designed for high productivity resistivity measu-rements.

It features some high capabilities allowing working in any field conditions. It can be configure in pole or dipole reception (dipole-dipole, pole-dipole and pole-pole time domain IP surveys).

The receiver uses a PDA computer to process acquisition data. A VGA display allows visualizing the results. The operating system is Windows CE and the software can easily updated via Internet.

Caracteristics

- **Reception poles/dipoles:** 8 poles/dipoles, 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 and IP decay curves can be displayed in real time thanks to the large Full VGA screen. Smaller VGA screen is also available in option. Before data acquisition, the GRx8-32 can be used as a one channel graphic display for monitoring the noise level and checking the primary voltage waveform through a continuous display process.
- **Internal memory**: Can store up to 64 000 readings for 8 poles/dipoles, memory expandable up to 512 000 readings upon PDA model, each reading includes the full set of parameters characterizing the measurements. The data is stored in flash memories not requiring any lithium battery for


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Equipment

The following equipment is shipped:

- 1 IP receiver module
- 1 IP receiver battery charger
- 1 PDA
- 1 RS-232 cable
- 1 Operation manual

The control panel is reliable and easy to use
Click on the picture to enlarge it

Features

- 8 simultaneous poles/dipoles expandable to 32
- 20 programmable chargeability windows
- PDA Full VGA Display (Smaller PDA available)
- Bluetooth or RS-232 communication
- Real-time data and data staking
- Screen-graphics: decay curves, resistivity, chargeability
- Simple to use menu-driven software
- Automatic SP compensation, gain setting and calibration
- Shock resistance, rugged, portable and environmentally sealed
- Resistivity and Time Domain IP
- One 24 bit A/D per channel
- Real-time data and automatic data stacking

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 and re-synchronization process on primary voltage signals
- **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**: GRx8-32, 6 kg (13.2 lb) and PDA 1.3 kg (2.9 lb)
- **Enclosure**: Heavy-duty Pelican case, environmentally sealed
- **Serial ports**: RS-232 port and Bluetooth to communicate with a PDA.
- **Rx 8-32 Temperature range**: -40 to +60°C (-40 to +140°F)
- **Humidity range**: Waterproof, operable in direct rain.

Power

- **Power**: 12 V rechargeable. Over 12 hours nominal operation at 20°C with 8 channel unit; additional batteries mounted internally or external battery input for extended operation in cold climates.

Electrical

- **Signal waveform**: Time domain (ON+, OFF, ON-, OFF)
- **Time base**: 0.5, 1, 2, 4 and 8 seconds
- **Input impedance**: 10 GO primary voltage less than 5 V
- **Minimum detectable signal**: 0.3 µV
- **Maximum input voltage**: ±40 V for any channel, protection up to ±320 V
- **Input:** True differential for common-mode rejection in dipole configuration
- **Voltage measurement:** Accuracy 0.2% typical, resolution

1µV
- **Chargeability measurement**: Accuracy 0.6% typical
- **SP offset adjustment**: ± 5 V, automatic compensation through linear drift correction

Recommended PDA

- **PDA**: The Allegro CX mobile PDA computer
- **Operating system:** Windows CE .NET 4.2
- **Processor**: Intel XScale, 400 Mhz
- **Memory**: 64 MB or 128 MB Flash, 64 MB RAM
- **Display**: 7.2" (183 mm) VGA STN transflective color LCD with backlighting.
- **PDA Temperature range**: -20 to +50°C (-4 to +122°F). Using Bluetooth, the PDA can be kept warm by the operator.

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