



# IP Receiver Model GRx8-32

«Field users have reported that the GDD IP Receiver provided more reliable readings than any other time domain IP receiver and it reads a few additional dipoles.»



## FEATURES

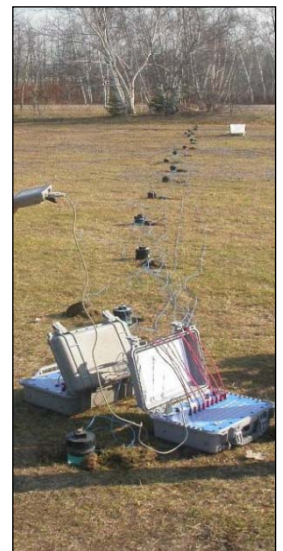
- 8 channels expandable to 16, 24 or 32
- Reads up to 32 ch. simultaneously in poles or dipoles
- PDA menu-driven software / simple to use
- 32 channels configuration allows 3D Survey:
  - 4 lines X 8 channels - 2 lines X 16 channels
  - 1 line X 32 channels
- Link to a PDA by wireless communication or a serial cable
- Real-time data and automatic data stacking (Full Wave)
- Screen-graphics: decay curves, resistivity, chargeability
- Automatic SP compensation and gain setting
- 20 programmable chargeability windows
- Survey capabilities: Resistivity and Time domain IP
- One 24 bit A/D converter per channel
- Gain from 1 to 1,000,000,000 ( $10^9$ )
- Shock resistant, portable and environmentally sealed

**GRx8-32:** This new receiver is a compact and low consumption unit designed for high productivity Resistivity and Induced Polarization surveys. Its high ruggedness allows it to work under any field conditions.

**User modes available:** Arithmetic, logarithmic, semi-logarithmic, Cole-Cole, IPR-12 and user defined.

**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:** A 4 Go (or more) Compact Flash memory card is used to store the readings. Each reading includes the full set of parameters characterizing the measurements for all channels; the full wave signal for post-treatment processing. The data is stored in flash type memory not requiring any battery power for safekeeping.



## SPECIFICATIONS

**Number of channels:** 8, expandable to 16, 24 or 32

**Survey capabilities:** Resistivity and Time domain IP

**Twenty chargeability windows:** Arithmetic, logarithmic, semi- logarithmic, IPR-12 and user defined

**Synchronization:** Automatic re-synchronization process on primary voltage signal

**Noise reduction:** Automatic stacking number

**Computation:** Apparent resistivity, chargeability, standard deviation, and % of symmetrical Vp

**Size:** 41 X 33 X 18 cm (16 X 13 X 7 in)

**Weight (32 channels):** 8.9 kg (19.6 lb)

**Enclosure:** Heavy-duty Pelican case, environmentally sealed

**Serial ports:** RS-232 and Bluetooth to communicate with a PDA

**Temperature range:** -45 to +60°C (-49 to +140°F)

**Humidity range:** Waterproof



8 Channels →

16 Ch. →

24 Ch. →

32 Ch. →

## ELECTRICAL CHARACTERISTICS

**Ground Resistance:** Up to 1.6 MΩ

**Signal waveform:** Time domain (ON+, OFF, ON-, OFF)

**Time base:** 0.5, 1, 2, 4 and 8 seconds

**Input impedance:** 5 GΩ

**Primary voltage:** ±10 uV to ±15 V for any channel

**Input:** True differential for common-mode rejection in dipole configuration

**Voltage measurement:** Resolution 1 μV, Accuracy 0.5%

**SP offset adjustment:** ± 5 V, automatic compensation through linear drift correction per steps of 150 μV

**Filter:** Eight-pole Bessel low-pass 15 Hz, notch filter 50 Hz and 60 Hz

**Chargeability Measurement:** Resolution 1 μV, Accuracy 0.8%

## PDA

Standard – Juniper Allegro Cx or Mx PDA computer provided with the GDD receiver with all accessories.

**Display:** 3.8" QVGA LCD 320 x 240 pixels

**Operating system:** Windows CE (Cx)  
Windows Mobile 6.0 (Mx)

### Allegro Cx



### Allegro Mx



## POWER

- 12 V rechargeable batteries.

- Standard plug for external battery.

## COMPONENTS INCLUDED



## PURCHASE

Can be shipped anywhere in the world.

### RENTAL- available in Canada and USA only

Starts on the day the instrument leaves our office in Québec to the day of its return to our office. 50% of the rental fee of the last 4 months of rental can be credited towards the purchase of the rented instrument.

## WARRANTY

All instruments are covered by one-year warranty. All repair will be done free of charge at our office in Québec, 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 instrument availability).

## OTHER COSTS

Shipping, insurances, customs and taxes are extra if applicable.

## PAYMENT

Checks, credit cards, money transfer, etc.



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Specifications are subject to change without notice

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