GEOPHYSICAL REPORT FOR INTERNATIONAL EXPLORERS AND PROSPECTORS INC. ON THE

MONTCLERGUE PROPERTY

CLERGUE, STOCK AND WALKER TOWNSHIP PORCUPINE MINING DIVISION NORTHEASTERN, ONTARIO

Prepared by: J. C. Grant,

March 2014

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ABSTRACT

HISTORY:

A landslide along the shore of the Driftwood River exposed an auriferous quartz vein Breccia. Follow up diamond drilling was completed as follows; 1938: Hollinger Consolidated Gold Mines - 10 diamond drill holes. 1942: Montclerg Mines, Newmont Mining Corp, Anglo Huronian Ltd and Howey Gold Mines Ltd. - 46 diamond drill holes totaling (27 783 feet), ground geophysics. 1959: Montclerg Mines - 12 diamond drill holes totaling (9276 feet). 1964-65: L. Torrance - 12 diamond drill holes totaling (5990 feet). 1966: Consolidated Montclerg Mines Ltd. - 10 diamond drill holes totaling (3000 feet). 1980-81: Consolidated Montclerg Mines – ground geophysics, property survey. 1986: Montclerg Resources Ltd. - IP survey, 3 diamond drill holes totaling (1440 feet). 1987: Bruneau Mining Corp - compilation of drilling data.

GEOLOGY:

It is likely that the Montclerg deposit is associated with a northeast-striking fault rather than the Pipestone Fault as was previously believed. Several NE-striking faults are geophysically inferred in this part of Clergue Township. The Montclerg deposit is hosted by weakly metamorphosed (greenschist or lower metamorphic facies) mafic volcanic and felsic volcanic and/or intrusive rocks within and/or north of the Pipestone Fault Zone. The Pipestone Fault Zone is a regional scale structure which, along much of its length, defines and/or is spatially associated with the contact between east striking and steeply dipping (metamorphosed) volcanic rocks of the (Archean) Stoughton-Roquemaure Group (to the north) and east striking and steeply dipping (metamorphosed) clastic sediments of the (Archean) Porcupine Group (to the south) (Jensen and Baker 1986, Gupta and Johnstone 1987, Johnstone and Steele 1989). Johnstone (1987) and Jensen and Langford (1985) have termed the eastern extension of the Pipestone Fault Zone the Middle Branch of the Porcupine-Destor Fault Zone.

Diamond drilling outlined an east-northeast-striking alteration zone approximately 1300 m by 130 m. Gold mineralization occurs throughout this alteration zone, however the best gold values were associated with arsenopyrite and less commonly with pyrite along the north contact between quartz-feldspar porphyry and mafic metavolcanic rocks only west of the Driftwood River.

The strike of the auriferous body is N 70-75 degrees east with a steep dip to the north. West of the river, values are found in and near a quartz feldspar porphyry dike about fifty feet wide. The dike is parallel to the flows through which it cuts. In places the lavas, which vary from dacite to basalt, are completely altered to silica and feldspar in bands. Gold is associated with arsenopyrite which occurs in needle-like crystals. The discovery [surface showing] is in volcanic breccia- in a small outcrop on the southeast bank of Driftwood River. It consists of irregular quartz stringers and altered rock. The holes to the west of the river showed an intrusive porphyry striking about parallel to the flow structure of the Keewatin [volcanic stratigraphy] or roughly east-west. In and along the north side of the porphyry, interesting gold values were found east of the river. The rocks are basic lavas much sheared, altered and mineralized. No porphyry has been

cut east of the river. There is much alteration to feldspar. It would seem that the porphyry plunges to the east (from a report dated May 16, 1939 by W.H. Emens). The rocks intersected were basic lava flows of the composition of about andesite, but some of the flows have been silicified, and in places porphyritized, along a zone having an average width of about 175 feet. It is this silicified material which mainly constitutes the auriferous zone. Although most of the gold occurs in the silicified [Pipestone Fault?] zone north of the fault yet there is some gold within the confines of the fault itself, as for example in Hole No.26 where low values were found near the hanging wall at about 1,300 feet,(from a cover letter dated Feb., 1942 from C.W. Knight describing his logs of the Montclerg Mines drill core).

INTRODUCTION:

The services of Exsics Exploration Limited were retained by Mr. Bonhomme, on behalf of the Company, International Explorers and Prospectors Inc., to complete an Induced Polarization, (IP), survey across a portion of their claim holdings in Clergue, Stock and Walker Townships, the Montclerg Property.

The grid consisted of 3 compass, paced and picketed lines that were established using a hand held GPS unit for control. Once the 3 grid lines were established the lines were covered by the IP survey.

PROPERTY LOCATION AND ACCESS:

The Montclerg Property is situated approximately 53 kilometers to the northeast of the City of Timmins and generally represents the south half of Lot 1 Concession 1 of Clergue Township which is part of the Porcupine Mining Division in Northeastern, Ontario. Refer to Figures 1 and 2 of this report.

Access to the grid during the survey period was ideal. Highway 101 runs east from the City of Timmins to the Hamlet of Shillington, about 51 kilometers to the east of the City. Highway 577 runs north from Shillington and parallels the claim block about 200 meters to the east. A short 200 meter access across a farmer's field will bring one to line 200ME and the base line. Traveling time from Timmins to the grid is about 50 minutes.

CLAIM BLOCK:

The claim numbers that represent a portion of International Explorers and Prospector's Inc., (IEP), are as follows:

Clergue Township: 1213753, 4258794, 3003960

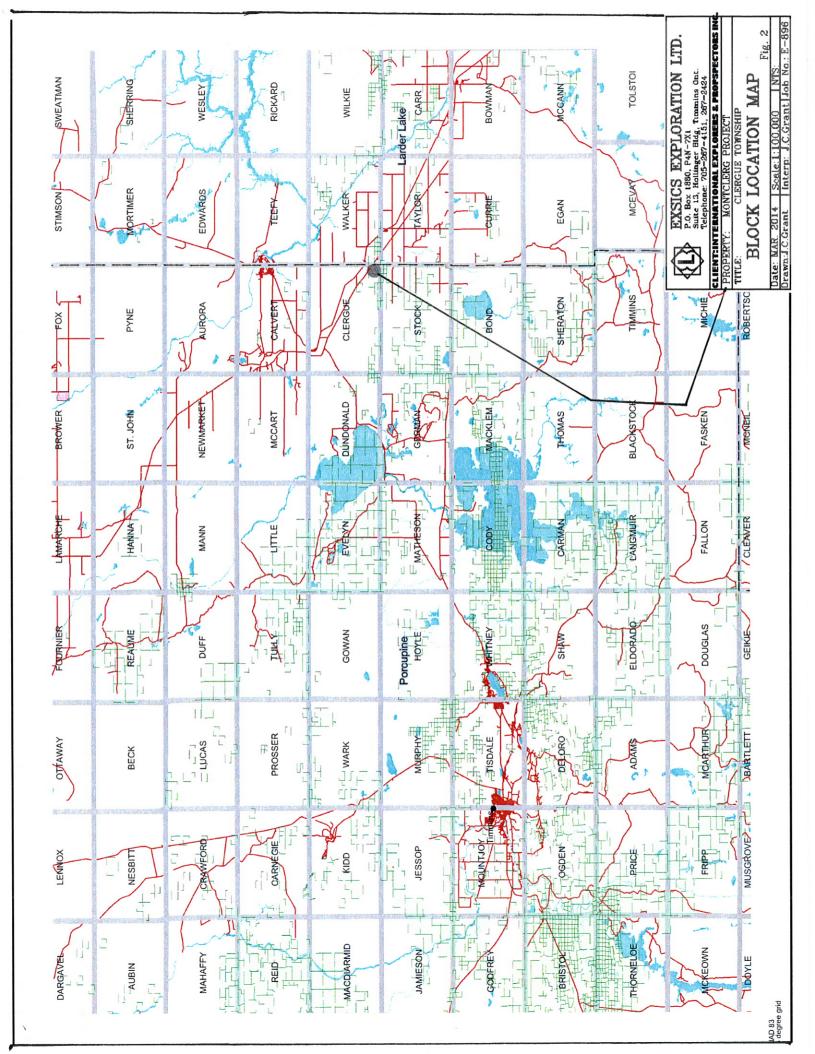
Stock Township: 4262412, 3003969, 3010199, 3010200, 3010201, 3010202, 3010203

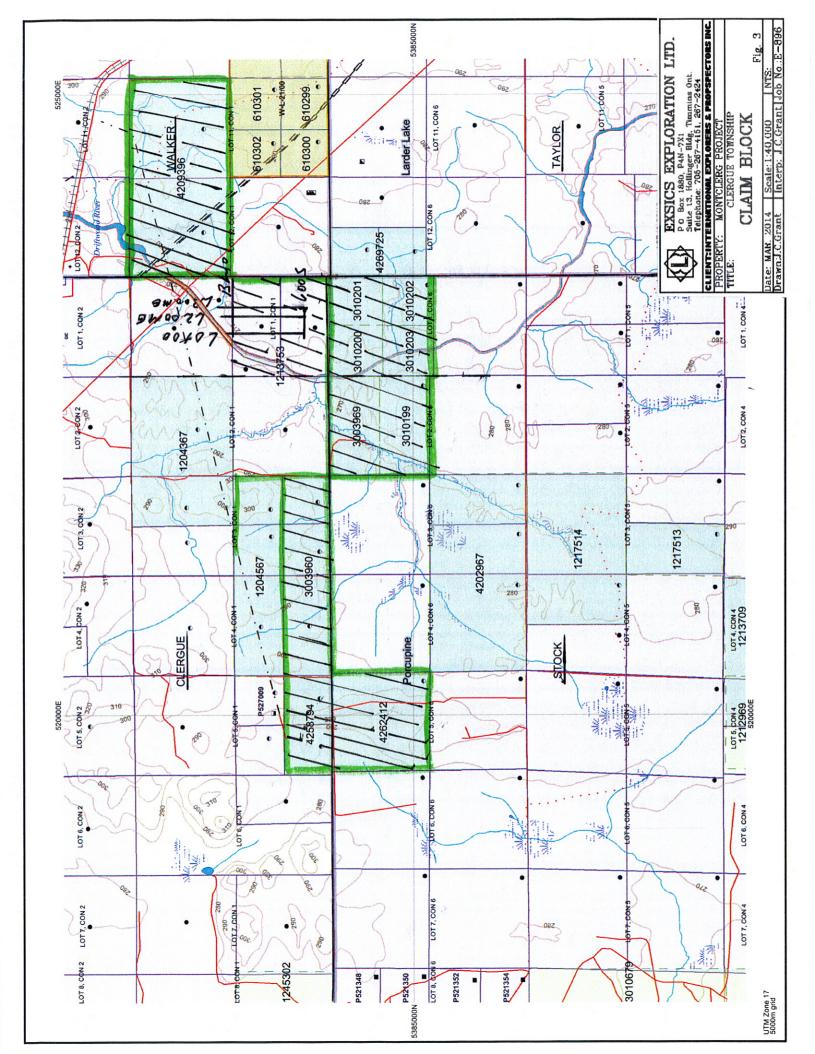
Walker Township: 4209396

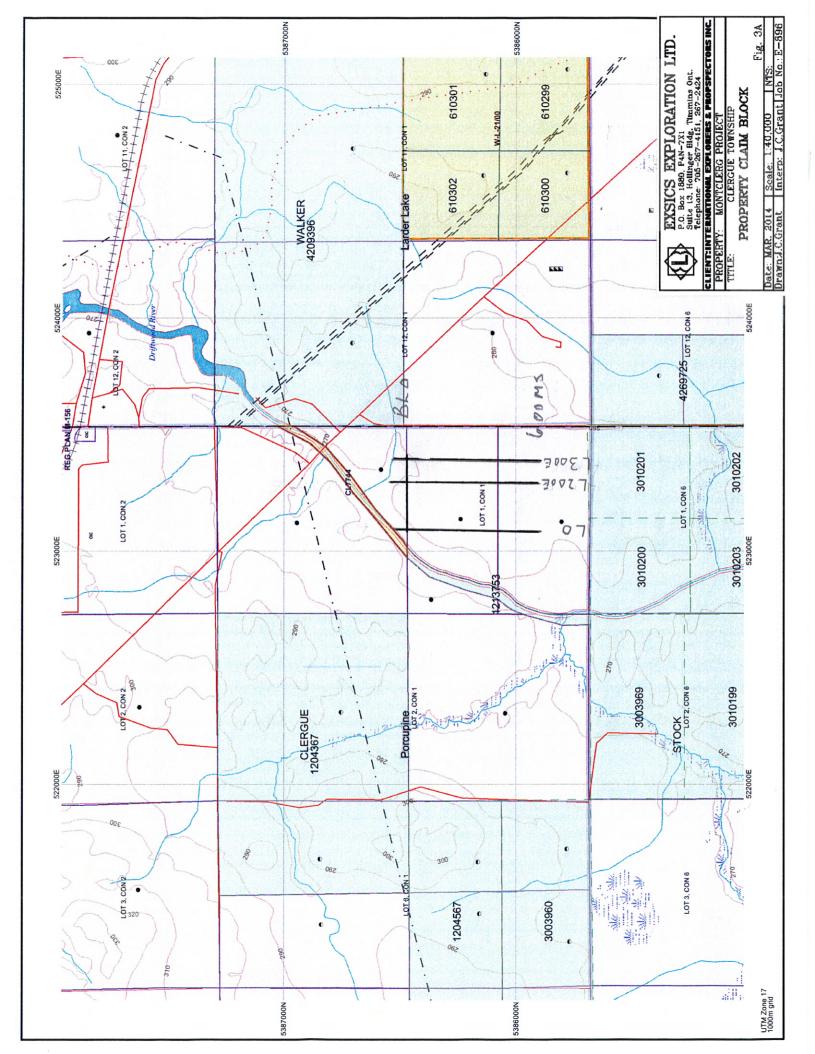
The claim block that was covered by the present geophysical survey was 2 patented claims that represent the southern half of Lot 1, Concession 1 of Clergue Township.

Refer to Figure 3 copied from MNDM Plan Maps of Clergue, Stock and Walker Townships for the positioning of the grid and the claim numbers within the Townships.









PERSONNEL:

The field crew directly responsible for the collection of all the raw data were as follows:

J. Francoeur	Timmins, Ontario
R. Bradshaw	Timmins, Ontario
D. J. Gibson	Timmins, Ontario
J. Hamelin	Timmins, Ontario
D. Poirier	Timmins, Ontario
D. Belair	Timmins, Ontario

The program was completed under the direct supervision of J. Grant and the plotting and report was completed by J. C. Grant of Exsics.

GROUND PROGRAM:

The ground program was completed in two phases. The first phase was to establish 2 grid lines across a portion of the property using a hand held garmin GPS unit to control the 2 grid lines. The lines were labeled line 0+00 and line 200ME and both lines ran south off of an eastwest base line that was first flagged across the northern boundary of the patented claim block. The cross lines were turned off at 100 and 200 meter intervals and all the lines were put in to 600MS. In all a total of 2.4 kilometers of grid lines were set up across the property and then the 3 lines were covered by the IP survey. The ground program was completed between March 4th and the 8th.

The IP survey was completed using the Instrumentation G. D. D. IP system and specifications for these units can be found as Appendix A of this report. The following parameters were kept constant throughout the ground program.

IP SURVEY:

Method: Time Domain
IP array: Pole-Dipole
Electrode spacing: 25 meters
Number of Electrodes 8 stainless steel

Integration Time 240 MS

Transmitter cycle 2 seconds on, 2 seconds off

Line spacing 100,200 meters
Station spacing 25 meters
Reading intervals 25 meters

Once the survey was completed the data was then plotted as individual line pseudo-sections at a scale of 1:2500 showing the contoured results for the chargeability, resistivity and calculated metal factor. Copies of these color sections are included in the back pocket of this report.

SURVEY RESULTS:

The IP survey was marginally successful in outlining a weak IP zone that generally lies between 400MS and 500MS on all 3 of the grid lines. The zone lies on the southern edge of a resistivity high and the zone appears to deepen as it strikes to the east.

There may be evidence of a weak deep zone lying at about 150MS on line 0+00 which is just at the limits of the present IP survey spread. The zone was not noted on the other two lines which may suggest it is also getting deep as you go eastward.

CONCLUSIONS AND RECOMMENDATIONS:

The Montclerg deposit has been drill tested in the past and it was determined that the zone strikes east to northeast and appears to plunge to the east. The southern zone outlined by the IP survey is also appears to plunge eastward. This may also be the case of the weaker zone outlined on line 0+00 at 150MS.

The lines would have to be extended to the south and north to allow for a wider IP spread which would allow for a deeper penetration type survey which would help in better defining the two zones. The grid should also be expanded to the west and east to get a better definition on the strike of the two zones.

Respectfully submitted

J. C. Grant, CET, FGAC

March 2014.

CERTIFICATION

I, John Charles Grant, of 108 Kay Crescent, in the City of Timmins, Province of Ontario, hereby certify that:

- I am a graduate of Cambrian College of Applied Arts and Technology, 1975, Sudbury Ontario Campus, with a 3 year Honors Diploma in Geological and Geophysical Technology.
- I have worked subsequently as an Exploration Geophysicist for Teck Exploration Limited, (5 years, 1975 to 1980), and currently as Exploration Manager and Chief Geophysicist for Exsics Exploration Limited, since May, 1980.
- 3). I am a member in good standing of the Certified Engineering Technologist Association, (CET), since 1984.
- 4). I am in good standing as a Fellow of the Geological Association of Canada, (FGAC), since 1986.
- 5). I have been actively engaged in my profession since the 15th day of May, 1975, in all aspects of ground exploration programs including the planning and execution of field programs. project supervision, data compilation, interpretations and reports.
- 6). I have no specific or special interest nor do I expect to receive any such interest in the herein described property. I have been retained by the property holders and or their Agents as a Geological and Geophysical Consultant and Contract Manager.

John Charles Grant, CET., FGAC.

APPENDIX A

GARMIN.

Owner's Manual

eTrex HC series

personal navigator



(eTrex Vista HCx shown)

APPENDIX

Specifications

Physical

Size: 4.2" H x 2.2" W x 1.2" D

Weight: 5.6 ounces (159 g) with batteries installed.

Display: 1.3" W x 1.7" H. 256-color, high resolution.

transreflective TFT(176 x 220 pixels) backlit.

Case: Ragged, fully gasketed water resistant.

IEC-529. IPX7

Temp: 5 to 158 F (-15 to 70° C)

The temperature rating of the effect may exceed the usable range of some actiones. Some batteries can rupture at high temperatures

Performance

Receiver: WAAS EGNOS enabled, high-sensitivity

Acquisition Times: (approx.)

Hot start- 3 seconds Warm start- 33 seconds Cold start- 39 seconds

Update Rate:

I second, continuous

Antenna:

Built-in patch

Compass (Vista HCx Summit HC only) Accuracy; -- 5

degrees, resolution; I degree, user calibrated

Altimeter: (Vista HCx Summit HC only) Accuracy:
- - 10 feet, resolution: 1 ft., user calibrated

Power

Source: Two 1.5 volt AA batteries, 12 V DC Adapter

Cable, or PC USB Adapter

Battery Life. Up to 25 hours HCx units

Up to 14 hours HC units

Accuracy

GPS: <10 meters (33 feet) 95% typical

Subject to accuracy degradation to 100m, 2DRMS under the U.S. Delb imposed Selective Availability (SA) Program when activated

DGPS 3 meters (10 feet) 95% typical

Wide Area Augmentation System (WAAS) accuracy in North A tierica

Velocity: 0.1 meter see steady state

Interfaces: Garmin Proprietary (USB)

Data Storage Life. Indefinite: no memory battery required

Map Storage HCx units -Dependant on the formatted

eapacity of the microSD card

HC units - 24 MB

APPENDIX B











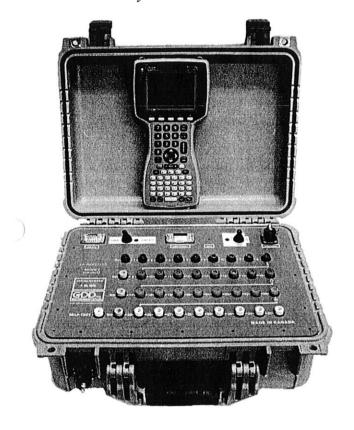


Canadian Manufacturer of Geophysical Instrumentation since 1976 Sales, Rental, Customer Service, R&D and Field training

WWW.GDD.CA

32 Channels IP Receiver Model GRx8-32

«Field users have reported that the GDD IP Receiver provided more repeatable readings than any other time domain IP receiver and it read 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 or
 1 line X 32 channels
- · Link to a PDA by Bluetooth or RS-232 port
- 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 (108)
- 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. It features high ruggedness allowing to work in any field conditions Reception poles/dipoles: 8 simultaneous channels expandable to 16, 24 or 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, IPR-12 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.

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. A flash card stores the full wave signal for post-treatment processing.

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 symetrical 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

POWER

Power: -12 V rechargeable batteries. -Standard plug for external battery.



Components included with GDD IP Receiver GRx8-32

1x Not shown but included: Receiver Not shown but included: Transportation box В 1x GRx8-32 IP receiver wall charger (120-240V) C Red cable banana/alligator (8 ch/10x, 16 ch/19x, 24 ch/28x, 32 ch/37x) D Ε Black cable banana/alligator 2x F Allegro Cx field computer 1x G Allegro Cx wall charger (120-240V) 1x Serial communication cable 9 pos. D-SUB female - 9 pos. D-SUB female H 1x Serial communication cable 9 pos. D-SUB female - 5 pos. Amphenol male 2x Allegro Cx shoulder strap K

PURCHASE

Can be shipped anywhere in the world.

RENTAL - available in Canada and USA only

Starts on the day the instrument leaves GDD office in Quebec to the day of its return in GDD office. 50% of the rental fees up to a maximum of 4 months can be credited towards the purchased of the rented instrument.

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.



PDA included with GRx8-32

Standard Juniper - Allegro CX mobile PDA computer provided

with the GDD receiver with all accessories.

Operating system: Windows CE

Comes with Bluetooth and RS-232

ELECTRICAL CHARACTERISTICS

Ground Resistance: Up to 1.5 MΩ

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

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

Input impedance: 104 GΩ

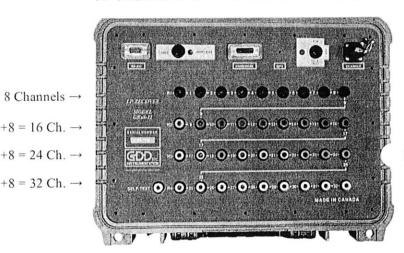
Primary voltage: ±10 uV to ±15 V for any channel

Input: True differential for common-mode rejection in dipole configuration Voltage measurement: Resolution 1 µV

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

32 channels GDD GRx8-32 IP Receiver



Allegro Cx external NIMH 3000mAh 3.6V battery charger (120-240V)

Not shown but included: Instruction manual (Allegro Cx mobile PDA)

SERVICE

8 Channels →

 $+8 = 32 \text{ Ch.} \rightarrow$

L

M

N

0

P

Q

R

S

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).

Allegro Cx NIMH battery pack 3000mAh 3.6V

Charger with 4 AA 2400mAh 1.2V NIMH batteries

Not shown but included: Instruction manual (Receiver)

Allegro Cx AA alkaline battery holder

Allegro Cx USB cable for USB power dock

Allegro Cx USB power dock

1x

2x

1x

1x

1x

1x

1x

1x

Allegro Cx hand strap

Allegro Cx utility CD

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

Checks, credit cards, bank transfer, etc.



3700, boul. de la Chaudière, suite 200 Québec (Québec), Canada G1X 4B7 Phone: +1 (418) 877-4249 Fax: +1 (418) 877-4054

E-Mail: gdd@gddinstrumentation.com Web Site: www.gddinstrumentation.com Specifications are subject to change without notice Printed in Quebec, Canada, 2008









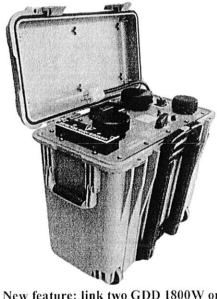


Canadian Manufacturer of Geophysical Instrumentation since 1976 Sales, Rental, Customer Service, R&D and Field training

Induced Polarization Transmitter

TxIII-1800W-2400V-10A Model







New feature: link two GDD 1800W or 3600W IP TX together and double the voltage (4800V) and power.

Its high power combined with its light weight and a Honda generator makes it particularly suitable for dipole-dipole Induced Polarization surveys.

- Protection against short circuits even at zero (0) ohm
- Output voltage range: 150 V 2400 V / 14 steps
- Power source: 120 V Optional: 220 V, 50 / 60 Hz
- . Displays electrode contact, transmitting power and current
- · One-year warranty on parts and labour

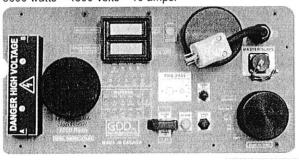
This backpackable 1800 watts Induced Polarization (I.P.) transmitter works from a standard 120 V source and is well adapted to rocky environments where a high output voltage of up to 2400 volts is needed. Moreover, in highly conductive overburden, at 150 V, the highly efficient TxII-1800W transmitter is able to send current up to 10 A. By using this I.P. transmitter, you obtain fast and high-quality I.P. readings even in the worst conditions. Link two GDD 1800 W IP TX together and transmit up to 3600 watts – 4800 volts – 10 amps.

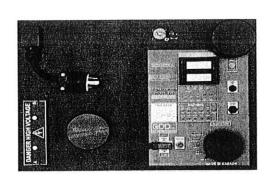
Face plate of the ←1800W and 3600W→ IP Tx

Its high power combined with a Honda generator makes it particularly suitable for pole-dipole Induced Polarization surveys.

- Protection against short circuits even at zero (0) ohm
- Output voltage range: 150 V 2400 V / 14 steps
- Power source: 220 V, 50 / 60 Hz standard 220 V generator
- Displays electrode contact, transmitting power and current
- One-year warranty on parts and labour

This 3600 watts Induced Polarization (I.P.) transmitter works from a standard 220 V source and is well adapted to rocky environments where a high output voltage of up to 2400 volts is needed. Moreover, in highly conductive overburden, at 350 V, the highly efficient TxII-3600W transmitter is able to send current up to 10 A. By using this I.P. transmitter, you obtain fast and high-quality I.P. readings even in the most difficult conditions. Link two GDD 3600 W IP TX together and transmit up to 7200 watts – 4800 volts – 10 amps.





SPECIFICATIONS

TxII-1800W

- Size: 50cm x 30.5cm x 45.7 cm
- Weight: approximately 28 kg
- Operating temperature: -40 °C to 65 °C

ELECTRICAL CHARACTERISTICS

TxII-1800W and TxII-3600W

- Standard time base of 2 seconds for time-domain: 2 seconds ON, 2 seconds OFF
- Optional time base: DC, 0.5, 1, 2, 4 or DC, 1, 2, 4, 8 seconds
- Output current range: 0.030 to 10 A (normal operation)

0.000 to 10 A (cancel open loop)

- Output voltage range: 150 to 2400 V / 14 steps
- Ability to link 2 GDD Tx to double power using optional Master / Slave cable

CONTROLS

TxII-1800W and TxII-3600W

- Power ON/OFF
- Output voltage range switch: 150 V, 180 V, 350 V, 420 V, 500 V, 600 V, 700 V, 840 V, 1000 V, 1200 V, 1400 V, 1680 V, 2000 V, 2400 V

DISPLAYS

TxII-1800W and TxII-3600W - now 2 displays

- Output current LCD: reads to ± 0.0010 A.
- Electrode contact displayed when not transmitting.
- Output power displayed when transmitting.
- Automatic thermostat controlled LCD heater for read-out.
- Total protection against short circuits even at zero (0) ohm.
- Indicator lamps in case of overload:
 - -High voltage ON/OFF
- -Output overcurrent
- -Generator over or undervoltage
- -Overheating
- -Logic fail
- -Open Loop Protection

POWER

TxII-1800W

Recommended generator:

- Standard 120 V / 60 Hz backpackable Honda generator
- Suggested models: Honda EU1000iC, 1000 W, 13.5 kg or Honda EU2000iC, 2000 W, 21.0 kg

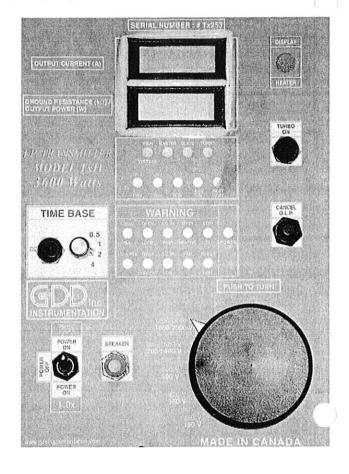
DESCRIPTION

TxII-1800W

- Includes shipping box, instruction manual and 110 V plug
- Optional backpackable Tx frame, Master / Slave optional cable

TxII-3600W

- Size: 51 X 41.5 X 21.5 cm built in transportation box from Pelican
- Weight: approximately 32 kg
- Operating temperature: -40 °C to 65 °C



TxII-3600W

Recommended generator:

- Standard 220 V, 50 / 60 Hz Honda generator
- Suggested models: EM3500XK1C, 3500 W, 62 kg or EM5000XK1C, 5000 W, 77 kg

TxII-3600W

- Includes built-in shipping box, instruction manual and 220 V plug
- Optional 220 V extension, Master / Slave optional cable

PURCHASE

Can be shipped anywhere in the world.

RENTAL - available in Canada and USA only

Starts on the day the instrument leaves GDD office in Quebec to the day of its return in GDD office. 50% of the rental fees up to a maximum of 4 months can be credited towards the purchased of the rented instrument.

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.

OTHER COSTS

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

Checks, credit cards, bank transfer, etc 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).



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Web Site: www.qddinstrumentation.com

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