

# Instrumentation GDD inc.

*Manufacturer of Geophysical Instrumentation Since 1976*



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## PRODUCTS AND SERVICES

**MPP Probe**

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case histories  
documents  
videos  
updates  
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**IP Transmitter**

description  
case histories  
documents  
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**IP Receiver**

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## The Induced Polarization Transmitters TxII-1800 Watts and TxII-3600 Watts Models

At last, two high-quality affordable IP Transmitters.

New: Link two GDD 1800 W or 3600 W IP TX together and increase the power

For Induced polarization surveys, use the new 8 to 32 channels receiver with the proven 1800W/3600W-2400V transmitters. For Pulse EM, use the GDD IP transmitter to increase current by 400% in a 4km loop.

**TxII-1800 watts- 2400 volts Model  
3600 watts-4800 volts option available**

Its high power, up to 10 amperes, combined with its light weight and a 21 kg/2000W Honda generator makes it particularly suitable for dipole-dipole Induced Polarization surveys.

- . Protection against short circuits even at zero (0) ohms
- . Output voltage range: 150 V to 2400 V / 14 steps
- . Power source: 120 V, Optional: 220 V 50/60 Hz
- . Operates from a light backpackable standard 120 V generator
- . Displays electrode contact, transmitting power and current
- . One year warranty
- . 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 V is needed. Moreover, in highly conductive overburden, at 150 V, the highly efficient TxII-1800 watts transmitter is able to send a current of up to 10 amperes. By using this I.P. transmitter, you obtain fast and high-quality I.P. readings even in the most difficult conditions.

**TxII-3600 watts - 2400 volts Model  
7200 watts - 4800 volts option available**

Its high power, up to 10 amperes, combined with a Honda generator makes it particularly suitable for pole-dipole Induced Polarization surveys.

- . Protection against short circuits even at zero (0) ohms
- . Output voltage range: 150 V to 2400 V / 14 steps
- . Power source: 220 V, 50/60 Hz

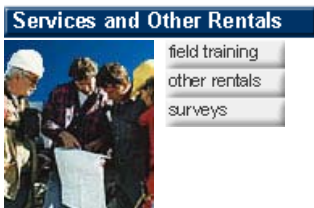


Two 3600 Watts GDD IP transmitters used in Master / Slave configuration to double power up to 7200W / 4800V



The TxII-1800 W-2400 V Model  
3600 W - 4800 V option available if used in Master-Slave configuration





- . Displays electrode contact, transmitting power and current
- . Operates from a standard 220 V generator
- . One year warranty
- . 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 V is needed. Moreover, in highly conductive overburden, at 350 V, the highly efficient TxII-3600 watts transmitter is able to send a current of up to 10 amperes. By using this I.P. transmitter, you obtain fast and high-quality I.P. readings even in the most difficult conditions.

## SPECIFICATIONS

### TxII-1800W Model

- . **Size:** 21 x 34 x 39 cm
- . **Weight:** approx. 20 kg
- . **Operating temperature:** -40°C to 65°C

### TxII-3600W Model

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



**GDD 3600W-2400V IP transmitter used in Ghana by PMI Ventures**

## 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 transmitters to double power (Master / Slave) from 3600W to 7200W and voltage from 2400V to 4800V**



**Two GDD 3600W-2400V IP transmitters linked together to increase power up to 7200W and voltage up to 4800V.**

## 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  $\pm 0.0010$  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



Displays for the TxII-3600 watts  
Click on the picture to enlarge it and show the components

## POWER

TxII-1800W

### Recommended generator:

Standard 120 V / 60 Hz backpackable Honda generator

Suggested models: EU1000iC, 1000 W, 13.5 kg or EU2000iC, 2000 W, 21.0 kg

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

## DESCRIPTION

TxII-1800W

**Includes** shipping box, instruction manual and 110 V plug

Optional backpackable frame for transmitter or generator

TxII-3600W

**Includes** built-in shipping box, instruction manual and 220 V plug

Optional 220 V extension

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**Instrumentation GDD Inc.**

**3700 boul. de la Chaudiere, Suite 200**

**Quebec (Qc)**

**CANADA**

**G1X 4B7**

**Phone: +1 (418) 877-4249 - Fax: +1 (418) 877-4054**

**www.gddinstrumentation.com**

**[Contact us](#)**

