Gap GeoPak
Advanced Geophysical Technologies

HPTX-70 / HPTX-80
High Powered Transmitters

The GeoPak HPTX series of high power transmitters include the HPTX-70 and HPTX-80. The transmitters are designed for electromagnetic surveys (EM) of all survey configurations including - Fixed Loop (FLEM), Moving Loop (MLEM) and DownHole (DHEM). Its high voltage output also makes it useful for galvanic mode surveys such as - Induced Polarisation (IP), Magnetometric Resistivity (MMR), or Sub-Audio Magnetics (SAM).

The HPTX transmitters provide better quality signal and consequently allow for high resolution, large scale or deep search geophysical surveys.

The HPTX transmitters are industry leaders in safety and feature the following:

- Remote operation via wireless link
- Guarding on all moving parts and dummy loads
- Fully enclosed, all-in-one configuration with fire suppression
- Automatic shutdown on error conditions such as open loop
- Emergency shutdown, safety interlocks and lock-out switches
- Circuit breakers on each alternator phase
- Internal bunding
- Safety Beacons

In addition to the safety features, the HPTX series transmitter feature:

- Internal or external transmitter control (Compatible with EMIT and Zonge controllers) with GPS synchronisation
- Dummy loads for load balancing
- Controlled voltage and controlled current operating modes
- Fast and slow turn off modes

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The transmitters have the following operating ranges:

Operating Ranges	HPTX-70	HPTX-80
Range 1	100V-200V Up to 350A	100V-200V Up to 360A
Range 2	200V-350V Up to 200A	200V-400V Up to 180A
Range 3	350V-700V Up to 100A	400V-600V Up to 120A
Range 4	700V-1200V Up to 60A	600V-1200V Up to 60A

Some typical configurations are:

Survey	Configuration	Loop Size	Current
Inductive EM Loop	Single turn 50mm² wire	100m x 100m	350A-360A
Inductive EM Loop	Single turn 35mm² wire	200m x 200m	290A-300A
Inductive EM Loop	Single turn 35mm² wire	400m x 400m	180A-200A
Inductive EM Loop	Single turn 35mm² wire	800m x 800m	150A-170A
Inductive EM Loop	Single turn 35mm² wire	1000m x 1000m	110A-120A

Expected currents for a survey can be determined by downloading the FREE GapTxCalc software from our website.

The HPTX-70 was the 2013 winner of the Grahame Sands Award for Innovation in Applied Geoscience. "The HPTX-70 is now acknowledged as a large step forward for mineral exploration in terms of safety, efficiency and exploration success at greater depths"

Preview, October 2013

It was also nominated by BHPB for its HSEC Safety Award.

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