www.geomatrix.co.uk
sales@geomatrix.co.uk
Tel: 01525 383438

TIPIX 2200 Data Sheet

TIPIX 2200 transmitter for resistivity and induced polarisation exploration. Image courtesy of Iris Instruments.

The TIPIX 2200 is a transmitter purposely designed for deep Induced Polarisation (IP) or resistivity sounding investigations. This transmitter is generally used together with V-Fullwavers or Elrec Pro receivers.

This instrument has been designed with usability and productivity in mind, and has safeguards in place to protect against misuse. It is very robust and has proven to be reliable even in very cold weather or in wet environments. It is able to inject up to 2200W in the soil and to inject up to 13A, so it is suitable even on conductive soils to measure resistivity and IP at medium range depths. It is powered by a standard generator.

With the possibility to limit current, power, voltage, and the different self-test and quality control of the injected signal, the TIPIX ensure a good protection for the device and the operator. This instruments features 4 buttons on the front face that allow the operator to manually select different voltage injection levels. The “automatic range” mode allows automatic selection of the optimal injection level with respect to the contact resistance.

To increase productivity, several TIPIX can be synchronised together via external GPS. The Toff time used for IP measurements is therefore synchronised, so that several IP measurements can be performed at nearby locations without interfering from one measurement to the other. This option can be used also to increase the signal/noise ratio by injecting with several synchronised TIPIX.

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	41 cm x 24 cm x 32 cm	24 kg

Technical Specifications

Geomatrix Earth Science Limited, Unit 20 Eden Way, Pages Industrial Park, Leighton Buzzard, Bedfordshire, LU7 4TZ

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Pulse duration:	0.5s, 1s, 2s, 4s, or 8s
Output Power:	0 - 2200W
Output Voltage:	Up to 1800V
Output Current:	0 - 13A
Resolution:	1mA
Accuracy:	1%
Synchronisation:	Auto on GPS PPS
Dipoles:	Dual Injection Dipoles
Readings:	Displays output current, output voltage, contact resistance and input power
Protection:	Short circuits, thermal protection, input over-voltage and under-voltage
Power requirements:	Single phase motor generator 115 or 230 VAC / 50 or 60 Hz.
Temperature:	-40 to +60°C

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