

Syscal Multi-TX Data Sheet



Syscal Multi-Tx resistivity and IP meter. Image courtesy of Iris Instruments.

The Syscal Multi-Tx resistivity and induced polarisation meter is one of the latest developments by Iris Instruments. It features three 250W transmitters and 6 reception channels to reduce the acquisition time. This technology is based on the CDMA coding of the injected currents, enabling the computation of the contribution of each transmitter on the total voltage received on each channel. In other words, in one injection, the multi-Tx is able to perform 18 resistivity and chargeability measurements with accuracy comparable to the Syscal Pro/R1.

The Syscal Multi-Tx rapid acquisition speed makes it particularly suited to:

- The monitoring of rapid hydrological processes (when acquisition time must be reduced at constant measurement accuracy)
- All types of applications with an objective of increase in productivity (water resources, environment, civil engineering)

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	44 cm x 31 cm x 40 cm	22.5 kg

Technical Specifications

Voltage:	Up to 400V
Current:	3 x 2.5A
Power:	Auto controlled internal 3 x 250W DC/DC converter
Pulse duration:	0.25s, 0.5s, 1s, 2s, 4s or 8s
Channels:	6 channels
Input Impedance:	100MOhm
Input voltage:	15V, automatic gain, input protection 1000V
Accuracy:	0.2%
Resolution:	1 microV
GPS:	GPS input for coordinates and synchronisation
Readings:	Resistivity, self-potential, induced polarisation (up to 20 windows), quality control & optional full waveform
Noise Rejection:	Power line rejection, SP linear drift correction
Storage:	44800 readings, stored on solid state memory
Temperature:	-20 to +70°C