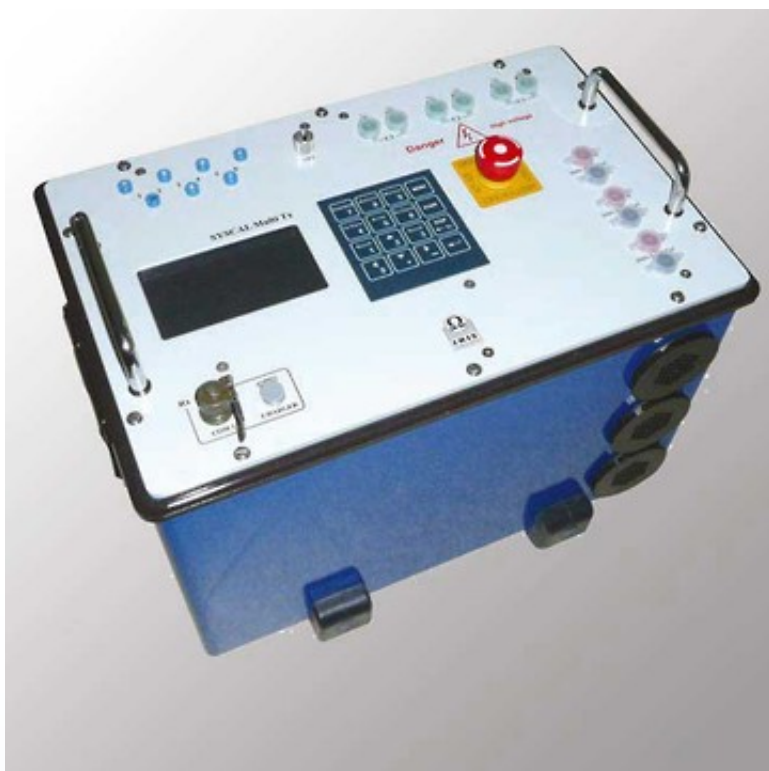


Syscal Multi-TX Data Sheet



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: | 100M Ω |
| 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 |