Tinsley Tone Generator 5915

The Electroding Generator is a low frequency oscillator with a sine wave output capable of delivering up to 500mA at 500 Volts peak to peak at any frequency from 5Hz to 99.9Hz. The frequency is selected by digital thumbwheel switches, peak current is set via a front panel rotary control. The Current and Voltage levels are clearly displayed on Front Panel Precision Analogue Meters.

The current waveform is controlled to be sinusoidal. The test current has a DC bias to improve the sensitivity detection over longer distances. The test current can be applied in either the forward direction only or in the reverse or forward bias, as required. Longer cables can normally be electroded by energising in the reverse direction. A crystal controlled oscillator ensures that the frequency does not drift while testing is in progress.

Output connections are made by permanently connected probes, which are fully shrouded. A safety circuit disables the Generator output whilst the probes are being applied to the cable under test. A special compartment on the rear of the instrument is provided for stowing the output probes when not in use. A frequency monitor point (square wave at signal frequency) is provided on the rear of the instrument. Output level is TTL compatible.

Key Features

Key operated. The key is removable only in the off position.
Both current and voltage are continuously monitored by individual front panel meters of accuracy 3% F.S.D
Controls are adjustable by thumbwheel edge switches

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Specifications	
Output	Continuously adjustable current regulated d.c. - sine wave modulated
Current Range	Minimum 75mA modulated at ± 25mA (50mA - 100mA pk-pk). Maximum 275mA modulated at ± 225mA (50mA - 500mA pk-pk)
Current Regulation	< 5%
Current Control	Continuously adjustable by 10-turn potentiometer
Voltage	500V peak max
Polarity	Output polarity is selected by means of a 3 position key switch (Positive, Off, Negative). The key is removable in any position.
Range	5Hz to 99.9Hz, selected in 0.1Hz steps.
Accuracy	± 0.01Hz
Stability	0.03% Long term (12hr). 0.003% Short term (10min)
Output distortion	THD 5%
Dimensions	300H mm x 512D mm x 470W mm approx
Weight	26.5kg approx

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