

TINSLEY 5915 TONE GENERATOR



GENERAL DESCRIPTION

The Tinsley Electroding Generator, type 5915, has been developed with British Telecom to locate submarine telephone cables. The method employed is the well established electroding technique. The unit is self-contained, desk top mounting, enabling tests to be carried out without the power feed connected to the cable under test.

The 5915 Tinsley Electroding Generator is intended as an aid to cable repair ships in locating and identifying telephone cables. The electroding generator energises the submarine cable with low frequency sine wave signal of up to 500mA at 500 volts peak to peak. The electroding generator is located in the terminal station normally nearest to the fault area and connected to the cable under test by means of two safety probes built-in the instrument.

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 40Hz. 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 distance. The test current can be applied in either the forward direction only or in the reverse or forward bias, as required. Longer cable 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 connectors 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 on the instrument. Output level is TTL compatible.



**Making
technology
work for you!**

OCEANSCAN LIMITED
DENMORE ROAD, BRIDGE OF DON, ABERDEEN,
SCOTLAND, U.K., AB23 8JW
TEL: +44(0)1224 707000, FAX: +44(0)1224 707001
Email: rental@oceanscan.co.uk, Website: www.oceanscan.co.uk
Accredited to BS EN ISO 9001:2000

TINSLEY 5915 TONE GENERATOR

TECHNICAL SPECIFICATIONS

Output:	Continuously adjustable current regulated d.c. - sine wave modulated
Current Range:	Minimum 75mA modulated at +/- 25mA (50mA-100mA peak-peak)
Current Regulation:	<5%
Current Control:	Continuously adjustable by 10-turn potentiometer
Mains Switching:	Key operated. Key removable only in the off position
Voltage:	500V peak max.
Polarity:	Output polarity is selected by means of a 3 position key switch (Positive, Off, Negative). The key removable in any position.
Monitoring:	Both current and voltage are continuously monitored by individual front panel meters of accuracy 3% F.S.D.

Modulation Frequency

Range:	5Hz to 40Hz, selected in 0. 1Hz steps
Accuracy:	+/- 0.01Hz
Stability:	0.03% long term (12hr). 0.003% short term (10min).
Output Distortion:	THD 5%
Controls:	Adjustable by thumbwheel edge switches

Power Requirements

- 105V to 125V or 210V; 50Hz to 60Hz (selected via rear panel)
- Power applied by operation of a key switch. Key is removable in the "OFF" position only
- Mains input circuit if fused. Input is via IEC socket

Weights & Dimensions

Size:	300H x 512D x 470W (mm) approx.
Weight:	22kg approx.



**Making
technology
work for you!**

Marketed By

