

# TINSLEY 5910 TEST SET



## GENERAL DESCRIPTION

The Tinsley 5910 is a portable short haul submarine cable test set that brings the latest technology to the tried and tested DC methods of cable fault location. Common test procedures which are associated with the location of cable fault such as "open circuits" and "shunt faults" are pre-programmed into the instrument. This allows the procedure to be carried out automatically therefore eliminating operator errors and reducing the uncertainty of fault position prediction. The instrument may be set for a range of voltages and currents making it suitable for use with most un-repeated submarine communication cable systems.

The RS232 interface is designed for full duplex communication with the instrument. All functions may be controlled via a computer and obtained data may be stored for future analysis. This interface may also be used to enable two 5910's to communicate with each other via a computer when carrying out double ended tests such as "no loss of current". A basic electroding generator function is included which can assist the cable repair vessel in locating the cable on the seabed prior to retrieval and repair.



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Accredited to BS EN ISO 9001:2000

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## TECHNICAL SPECIFICATIONS

### Ohmmeter - Conductor Resistance Measurement

Resistance Range	Resolution	Accuracy (within compliance of 1V to 140V)
0.2 to 100.00 $\Omega$	0.01 $\Omega$	$\pm 0.2\Omega$
100.00 $\Omega$ to 1000.00 $\Omega$	0.1 $\Omega$	$\pm 0.2$ up to 200 $\Omega$
1K $\Omega$ to 10K $\Omega$	1 $\Omega$	$\pm 0.1\%$ at 1K $\Omega$ reducing to $\pm 0.2\%$ at 10K $\Omega$
10K $\Omega$ to 100K $\Omega$	10 $\Omega$	$\pm 0.2\%$ at 10K $\Omega$ reducing to $\pm 2\%$ at 100K $\Omega$

### Current Control

Polarity Positive "+" or negative "-" selectable by thumbwheel switch

Range	Resolution	Accuracy
0.5 to 10.0mA	0.1mA	$\pm 2\mu A$
10.1mA to 100mA	0.1mA	$\pm 20\mu A$

### Megohmmeter - insulation resistance measurement

Voltage settings +50V, 100V, 250V, 500V or 1000V

Polarity selectable positive "+" or negative "-"

Range	Applicable Voltage	Accuracy
10 <sup>5</sup> to 10 <sup>9<math>\Omega</math></sup>	50V 100V	$\pm 1dB$ (10 <sup>5</sup> to 10 <sup>8<math>\Omega</math></sup> ) using standard resistors
10 <sup>6</sup> to 10 <sup>10<math>\Omega</math></sup>	250V	$\pm 1dB$ (10 <sup>6</sup> to 10 <sup>9<math>\Omega</math></sup> ) using standard resistors
10 <sup>7</sup> to 10 <sup>11<math>\Omega</math></sup>	500V 1000V	$\pm 1dB$ (10 <sup>7</sup> to 10 <sup>10<math>\Omega</math></sup> ) using standard resistors

Capacitance Range	Resolution	Accuracy	Measurement Cycle (using standard caps)
0.05 to 2 $\mu F$	0.001 $\mu F$	$\pm 0.005\mu F$	2 secs @ 1 $\mu F$
2 to 20 $\mu F$	0.001 $\mu F$	$\pm 0.2\%$	2 secs @ 10 $\mu F$
20 to 200 $\mu F$	0.01 $\mu F$	$\pm 0.2\%$	20 secs @ 100 $\mu F$
200 to 2000 $\mu F$	0.01 $\mu F$	$\pm 0.2\%$	200 secs @ 1000 $\mu F$

### Electroding Generator (GEN)

Output polarity either positive to LINE or negative to LINE

Control	Constant current - compliance 0.1 to 50V
Frequency	25Hz or 16.7Hz
Output	50mA + 50mA sin wt. (i.e. minimum 0mA, maximum 100mA, synthesised, sinusoidal current)



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