--- Tone Generators



- 3 year warranty 。
- Balanced output 。
- High level output 。
- Micro controlled 。
- Key press timing 。
- Battery low warning 。
- Indicates shortcircuit 。
 - Long battery life 。
 - Sealed electronics 。
 - Sealed battery 。
 - Wrist strap 。
 - One button control 。
 - Crush proof \circ
 - Chemical resistant 。
 - Breathes •
 - Floats •
 - Seal tests:
- Submerged for 10 mins at 0.15m 。 Free fall tests:
 - 6 x 3m (10 foot) 1 on each axis 。
- 60 x 0.33m (1 foot) 10 on each axis 。
- 240 x 0.15 (6 inches) 40 on each axis 。
- Tone generator designed specifically to meet the needs of organisations operating large copper networks. It generates short bursts of 1kHz sine wave at any one of 4 cadence rates. The balanced sine wave output **prevents disruption of digital traffic.**
- Nautilus range products are "operating environment hardened" to deliver new standards in reducing Whole Life costs. Each product includes a "shell" designed to breathe and safeguard the functional elements from water, dust, impact and temperature change.

It's waterproof!

• Chesilvale specialise in the design and supply of equipment used to deploy and maintain the fixed copper connection between two communicating entities.





Tone Generator 600J

Specification

- Sinusoidal 1kHz ±50Hz, total harmonic distortion <5%
- $19mW \pm 1mW$ into $1kW\Omega$ (4.24 to 4.47Vrms)
- Open circuit output voltage 8.4Vrms to 8.8Vrms
- Cadenced pulses of 25ms ±3ms duration at rates of 3, 5, 8.5 and 11.5 pulses per second ±0.5pps
- DC path with an impedance not exceeding $10W\Omega$
- Non-DC path with the output isolated by a capacitor
- On/off control with bi-stable action designed to avoid accidental operation

Application





The cable pair is connected across the output transformer. Use for pair tracing.



One output is connected to one cable, while the other is connected to around. Use for cable tracing.







A DC blocked path allows pair tracing while connected to the exchange without drawing current.

Indicates the presence of a short circuit on a cable pair up to 2km lona.



- The electronics and battery are housed in separate compartments, which are sealed with silicon rubber gaskets to provide protection from the elements.
- The case design includes strengthening ribs so that it withstands heel weight on solid ground.

Crosstalk

Capacitive coupling between wires in a cable can cause the spill over of information from one circuit to another, which on telephone circuits can lead to overhearing.

 Chesilvale tone generators and probes are designed to maintain the design characteristics of cables in order to minimise the effects of crosstalk. This becomes increasingly important when cables designed for the analogue era are used to carry digital traffic.

The Tone generator is allowed to 'breathe' via a patented membrane to ensure that it floats if accidentally dropped into deep water. The membrane also prevents changes in internal pressure from sucking in moisture.

Options & Accessories

M0550-00

1kHz tone generator with transformer and capacitor output



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