

Tempo New Nautilus Tone Tracer Kit

Product Images

Product Code: C00-4352



Short Description

Kit comprises:

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<https://www.millsltd.com/default/tempo-new-nautilus-tone-tracer-kit.html>

09/04/2024

- 600J Tone Generator
- 500XP Precision Filter Probe
- Heavy duty wallet
- Test cord set

C00-4599 500XP Tempo 500XP Precision Filter Probe

Designed to help technicians install, service, and maintain voice, data, and video (VDV) services with ease, the Tempo 500XP Pair Tracing Probe gets the job done faster, safer, and easier.

Building on the success of the 200XP and 200FP, the Tempo 500XP adds new features such as real-time, proportional signal processing and acAlert™ hazardous AC voltage warning.

Other features include a headset connection with improved signal fidelity, and advanced Nautilus® ergonomics and environmental protection, helping you get the job done in even the most demanding conditions.

The Tempo 500XP features a new 32-bit microcontroller, which allows for advanced digital signal processing. With effective filtering, low power consumption, and a rugged weather resistant body, the 500XP lets you trace wires for longer, and with greater accuracy than ever before.

- Two Button Control: Simple, easy to use operation.
- Dual LED Indicators: Provides real-time proportional signal strength feedback.
- acAlert™ Voltage Detection: Emits audible and visible alerts if brought near wires that have AC mains power voltage.
- Mains Hum Filtering: Eliminates hum noise, so you can focus on tracing the correct wire.
- Bandpass Filters: Further reduces noise. Separate LED display with real-time signal strength indicators. Best used when combined with Tempo Tones set to 577 Hz and 983 Hz.
- Industry Standard: Works with a variety of toners (500 Hz to 2.5 kHz).
- Nautilus® Environmental Protection: Environmentally protected against dust and moisture. Drop and Crush resistant.
- Three Year Limited Warranty.

Telephone Compatibility Suitable for telecommunication network (TNV-3) signals. May also be used on other networks with similar maximum voltage limits

Maximum Tip Voltage 100V - Emits audible and visible alerts if brought near 50 - 60 Hz AC power cables (acAlert™)

Maximum Transient 500V (1.2 / 50 µs)

Sensitivity Adjustable, 0 dB to ≥ 60 dB

Frequency Response 200 Hz to 3 kHz

Crush Resistance 2 220 lb (100 kg)

Drop Resistance 3 10 ft (3 m)

Dust Resistance IP67 Rated: Total Dust Ingress Protection

Water Resistance IP67 Rated: Can be submerged in 6" (0.15 m) of water for up to 10 minutes. Floats

Operating Temperature -4 to 122°F (-20 to 50°C)

Hearing Protection < 103 dB SPL Peak when used with Tempo headsets

Battery Type 9V PP3

Battery Life > 50 Hours

600J Tempo 600J Tone Generator

The unique Nautilus design characteristics deliver a Tone Generator with an operational life of more than double that of any other on the market. The Tone Generator 600J provides transformer coupled or capacitor coupled connection to the wire pair or cable under test.

Either configuration can be used to locate a wire pair or cable. The choice of output connection is of particular benefit when the pair is identified and testing back to the Tone Generator is required. Transformer coupled configuration allows for loop measurement through the TG 600J or fault location using bridge technology or TDR.

Capacitor coupled configuration allows for insulation resistance measurement at up to 200V without damage to the oscillator. The TG 600J is optimised to work with the narrow frequency response of Tempo Amplifiers 109K and 500XP.

FEATURES

- Balanced 1kHz Sine Wave Output
- Four Distinct Tone Signatures
- Continuity Test
- High Tone Output
- Battery Low Warning
- Transformer Coupled Output - DC Path
- Capacitor Coupled Output – No DC Path
- One Button Operation
- 3 Year Warranty
- Nautilus Design Characteristics:
 - Crush Proof
 - Water Proof
 - Dust Proof
 - Chemical resistant

The balanced 1kHz sinusoidal output maintains the design characteristics of the pair under test ensuring that the unwanted signal outside the pair is weak minimizing crosstalk to adjacent pairs. This becomes increasingly important when cables designed for the analogue era are used to carry digital

traffic.

BENEFITS

- Reduce whole life costs for network operators
- Minimise crosstalk to adjacent pairs. Becoming important as more Digital Services are deployed
- Maintain the integrity of the wire pair under test whilst TG 600J connected
- Ability to take loop resistance measurements through TG 600J after pair identified at far end
- Ability to locate faults using bridge technology or TDR without having to remove tone source
- Capacitor coupling facilitates clearing of loop faults
- Tone on live circuits without drawing line current
- Able to be used on cable with up to 4 different engineers toning at same time

Electrical:

Output Power (into 600Ω): 13dBm

Output Frequency (nominal): 1kHz±50Hz

Voltage Protection: 200VDC

Power Source:

Battery: 4 Alkaline 1.5V AA Cells

Battery Life (nominal): >200 hours

Environment:

Operating Temperature: -10°C to +55°C

Storage Temperature: -20°C to +60°C

Relative Humidity: 0% - 95%

Physical:

Length: 153mm

Width: 54mm

Depth: 35mm

Weight: 266.6g

Warranty: One Year

Formerly C00-3556K

Description

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