

combined test line

T164-02



Features

- The T164-02 Combined Test Line uses the ringing voltage as a start and provides a timed disconnect.
- Rack Mounted
- 1010 Hz mW Tone
- ± 0.03 dB Stability for all Conditions
- Oscillator and Balance Termination Impedance
- Automatic Changeover from Tone to Balance Termination
- Test Jack Provided
- Tone Delay after Initial OFF HOOK
- 24 V or 48 V Operation Standard

Description

The Model T164-02 is a combined test line which provides a stable mW, 1010 Hz reference tone for an 8 to 10 second period followed by a quiet termination.

It is designed for installation in a remote office or PBX, and provides means for making one-way transmission and noise measurements as required for connection appraisal surveys. The unit is available as rack mount equipment.

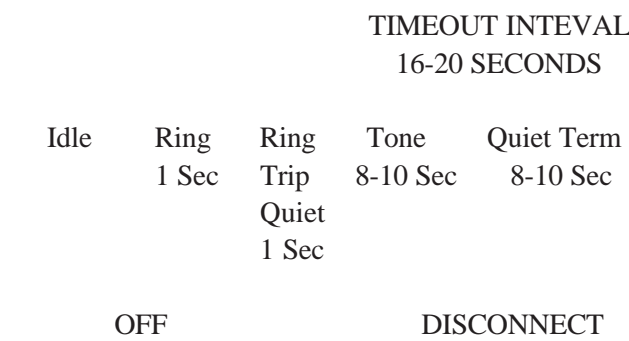
The T164-02 is designed for use with 101 ESS PABX or similar equipment where a test line control lead, such as the S lead, is not available, and where a dry circuit cannot be provided. In these cases, the call is initiated by ringing voltage on the pair.

The T164-02 will answer a call in approximately one half of a ring cycle. Once answered, the line circuit will remain OFF HOOK for a timed period of 16 to 20 seconds, then it will disconnect, ready for another call.

The T164-02 has a stable 1010 Hz tone generator with a nominal output of 0 dBm, and a quiet termination of 900 ohms $\pm 2.16 \mu\text{F}$, which is automatically connected across the line when the tone is not present.

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The Model T164-02 provides the following sequence of events after a call is received:



NOTE: Above figure applies when strapped for combined (Tone and Quiet Termination) operation. If arranged for Continuous Tone, tone would be present for 16 to 20 seconds.

Specifications

Reference Tone:	
Frequency	1010 Hz $\pm 1/2\%$
Output Level	0 dBm
Stability	± 0.03 dB under all conditions
Harmonic Distortion	At least 40 dB below fundamental
Output Impedance	900 ohms $\pm 2\%$ +2.16 μ F
Output Jack:	For external use of reference tone or for checking level setting.
Balance Termination:	
Impedance	900 ohms +2.16 μ F
Hold Circuit:	Electronic
Start Operation:	Ringing Voltage
Timing Interval:	
Answer	Approximately 1 second of ring
Tone Delay	1 second
Tone Interval	8-10 seconds or continuous during OFF HOOK interval
OFF HOOK Interval	8-10 seconds
Balance Term. Interval	From end of tone to end of OFF HOOK interval

Application of the milliwatt tone is delayed 1 second after OFF HOOK to avoid interference with any equipment which may still be in the line circuit when the OFF HOOK condition is first established.

The milliwatt tone stays on for 8 to 10 seconds, after which it is removed and the quiet termination is connected across the line. The circuit remains in this state until disconnect occurs at the end of the timed period.

The T164-02 may be connected internally for continuous tone following the initial 1 second delay.

Environmental Conditions:	
Operating Temperature	0°C to 50°C
Humidity	95% at 35°C 40% at 50°C
Storage Temperature	-55°C to 70°C
Altitude(non-operating)	50,000 feet
Power:	
DC Voltage	22 to 55 VDC
Current (typ)	75 mA operated 40 mA idle
Physical:	
Dimensions (HWD)	3.5 in. x 19 in. or 23 in. x 4.75 in. (9 cm x 48.3cm or 58.4 cm x 12 cm) Specify rack panel mount length when ordering
Weight	Approx. 2 1/2 lbs. (1.13kg)

Ordering Information

T164-02	30164057
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