

T1-WATCHER® T1 Monitor

The T1-WATCHER® gives you the capabilities you need to identify and isolate T1 problems. All in a compact, lightweight, battery operated unit that fits in the palm of your hand. So simple to use, within minutes you are an expert.

The T1-WATCHER is a full-featured monitoring instrument that can be used for installation, maintenance or as a performance monitor. It can verify span operation and isolate problems to span components or end-user equipment. The T1-WATCHER will measure level and frequency and auto-configure to the line code and framing being used. It automatically recognizes eight test patterns, including QRSS, 3 in 24 and 55 OCTET. To verify operation of the T1 span over long time periods, it will count errors and display statistics, such as Error-Free Seconds. The alarm and status indicators flash to attract attention to a condition that has changed during a test.

The T1-WATCHER provides access to any of the 24 DS0 channels. You may select a channel manually, or the T1-WATCHER will automatically scan to find an active channel. Once a channel is selected, the data bits along with the signaling bits can be displayed, and you can listen to the channel using the internal speaker or an external earphone. If there is a test tone on a channel, the signal level and frequency of the signal can be displayed. To aid in troubleshooting or to judge the level of activity on the T1 circuit, the T1-WATCHER displays all 24 A, B, C or D signaling bits at one time.

If you want an easy-to-use, inexpensive instrument for installation and maintenance, or you want to ensure that you're receiving all of the T1 service you pay for, the T1-WATCHER is for you.



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SPECIFICATIONS

TW 1 T1-WATCHER®

RECEIVER

Clock Source: Recovered from received data
Line Codes: AMI or B8ZS selected automatically
Framing: None, SF, ESF and SLC*-96
Test Patterns: QRSS, 1:7, 2 in 8, 3 in 24, 1:1, ALL 1's, T1 DALY and 55 OCTET
Channel Format: FULL T1 or 64 x 1

INPUT

Connector: Bantam Jack

Level Range

Terminate & Bridge: DSX + 6 dB to DSX -36 dB
Monitor: DSX -14 dB to DSX -40 dB

Impedance

Terminate: 100 ohms
Monitor: 100 ohms
Bridge: Greater than 1000 ohms
Auto Configuration: Line coding, frame format, and test pattern

POWER

Batteries: Rechargeable (AA)
Battery Life: 5 hours minimum per charge
Recharge Time: 6 hours nominal
AC Operation: 115 vac, 60 Hz

PHYSICAL

Display: 2 line by 16 character
Size: 5½" L x 3¾" W x 2½" H
Weight: 1¼ lbs. (.6 Kgram)
Operating Temperature: -20°C to 60°C
Storage Temperature: -30°C to 80°C
Humidity: 10% to 90% noncondensing

MEASUREMENTS

Errors: BPV
BIT
Frame
CRC
Errored seconds and time: Errored seconds
Percent errored seconds
Error free seconds
Percent error free seconds
Elapsed test time
T1 and channel: Receive frequency and level
DSO channel number and data
DSO channel signaling
DSO channel frequency and level
A, B, C and D signaling, all 24 channels



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Specifications subject to change without notice.



Made in U.S.A.