T1 TESTING AT AN ECONOMICAL PRICE

T1-LITE™ Transmission Test Set

Full T1 Transmission Testing on a Budget

Electrodata's T1-LITE provides all the basic T1 testing functions in a small package and at a great price. The T1-LITE is designed with full T1 transmit and receive functions perfect for turning up and troubleshooting T1 lines and equipment. Built to the same exacting standards as our other Electrodata products, the T1-LITE is designed to autoconfigure to the line coding, framing format, and test pattern; perform bit error testing using standard T1 test patterns; identify error and alarm conditions; measure signal frequency and level; display 24 channel signaling;perform drop and insert operations; and includes a clock reference jack to allow clock slip detection and measurement. The T1-LITE is designed to test across the full T1 band or test individual 64K channels.

Easy to Use

The T1-LITE uses thirteen LEDs to display normal line operation, alarm or error conditions, and test set battery condition. A twelve button keypad allows autoconfiguration, test set up, DS0 channel selection, line loop ups and loop downs, error injection, and results monitoring with the touch of a finger. A built-in speaker allows channel monitoring, and a headset jack allows monitoring and voice operation with any standard "cell phone" type headset. The easy to read 2-line by 16-character liquid crystal display makes set up and results reading simple.

Features

- Full T1 Transmit and Receive
- Autoconfigures to Framing, LIne Code, and Pattern
- Transmits Standard Industry Test Patterns
- Performs Channel Drop and Insert
- Includes Timing Reference Jack for Clock Slip Measurements
- Easy-to-Read 2-Line, 16-Character LCD
- Provides CSU / NIU Loopback Emulation

Electrodata, Inc.®
23020 Miles Road
Bedford Heights, Ohio 44128-5400
Call Toll Free 1-800-441-6336
(216) 663-3333 FAX (216) 663-0507
e-mail: sales@electrodata.com
www.electrodata.com

SPECIFICATIONS

TL1
T1-LITE

Electrical Interface

Connectors:

RX, TX, REF	Bantam Jacks
Headset	Accepts 2.5mm cellular-type headset

Output

Pulse Shape	Conforms to TR-TSY-000499, ITU Recommendation G.703, AT&T Publications CB113, CB119, CB132, CB143, PUB62508, and PUB 62411 pulse shape specifications when terminated in 100 ohms and 0 dB LBO is selected
Line Buildout	0 dB, -7.5 dB, -15 dB
Line Code	AMI, B8ZS

Input

Terminate	DSX +6 dB to DSX -36 dB, 100 ohms
Monitor	DSX -14 dB to DSX -36 dB, 100 ohms
Bridge	DSX +6 dB to DSX -36 dB, >1000 ohms

Clock 1.544 MHz

Internal	±5 ppm
External	±300 ppm
Recovered	±300 ppm

Transmitter and Receiver

Framing Formats	Unframed, D3/D4, ESF, & SLC96*
Channel Formats	64x1 or Full T1
Test Patterns	QRSS, 55 Octet, T1-Daly, All 1's, 3 in 24, 2 in 8, 1:7, Alternating 1/0, All 0's,
Error Injection Type	BPV, CRC, Frame, Bit
Alarms Detected	LOS, Yellow, AIS, Idle

Loop-Back Capability NIU, NET-NIU, CSU, HDSL-T1E1.4, PAIRGAIN-GNLB

DS0 Specifications

Interface:

VF In/Out Connector	Headset Access Jack

Power

Batteries:	Rechargeable Nickel Cadmium
Battery Life:	4 hours minimum per charge
Recharge Time:	6 hours nominal
AC Operation:	Selectable 115-230 VAC, 50/60Hz (PS-3)

Physical

Display:	2 line by 16 character
Size:	140mm Lx 95mm W x 63mm H 5 ½ “L x 3 3/4"W x 2 ½”H
Weight:	.6 Kgram (1 lb. 5 oz.)
Operating Temperature:	-20E C to +60E C
Storage Temperature:	-30E C to +80E C
Humidity:	10% to 90% non-condensing

Measurements

Errors:	BPV, Bit, Frame, CRC, Bit Error Rate
Errored Seconds and Time:	Errored seconds, Percent errored seconds, Error free seconds, Percent error free seconds
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

* SLC96 is a registered trademark of AT&T