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Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the "Click-to-Call" logo below, you can all us for FREE!

TMG Corporate Website **TMG Products Website**

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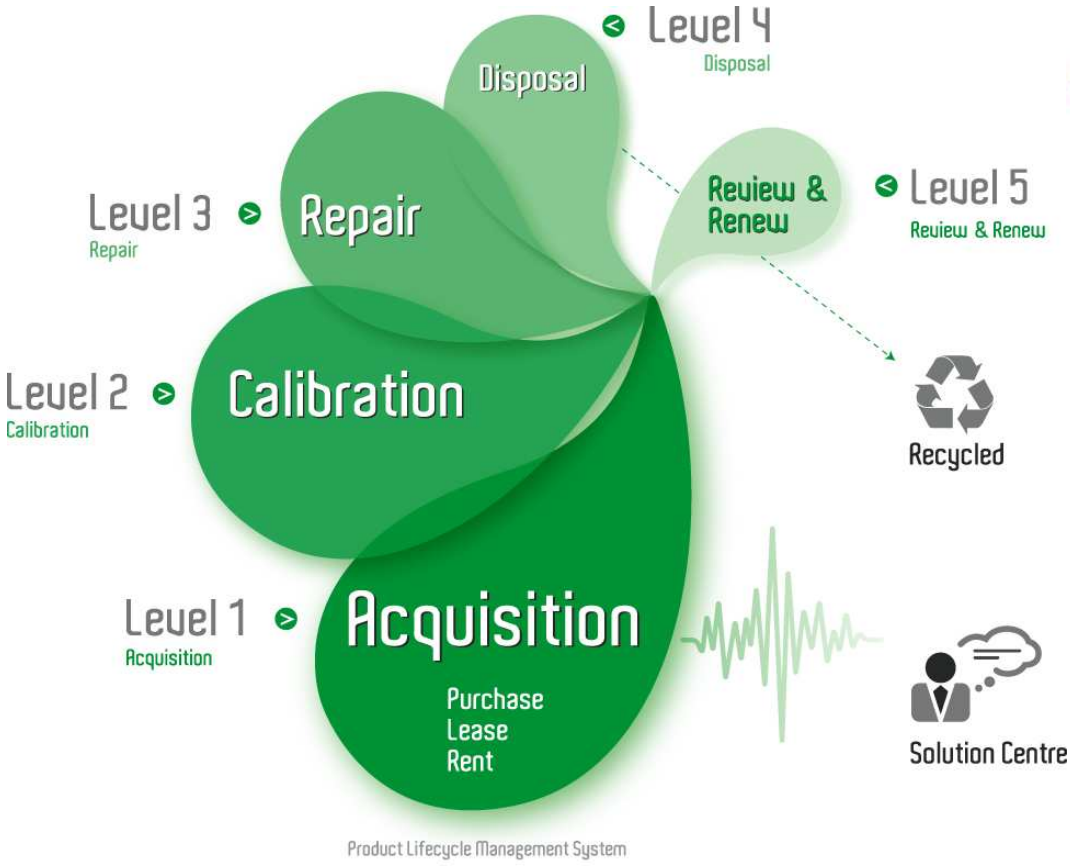


Teletech TX120A

Digital Line Test Sets

ADSL-PAIR GAIN-ISDN

New multi-functional line pre-qualifier combines features of other test sets into one fully comprehensive instrument

Versatile easy-to-use Teletech DLTS for high frequency digital voice services.

Time and money Saver. Functional efficient, unassisted operator concept.

The Teletech DLTS includes remote line looping, exchange connect and signalling over same bearer pair. Selected and spot frequency checks, resistance, line balance, noise and crosstalk.

Line access Terminals for other Instruments.

Sender

Receiver

Cables

Probe

Teletech

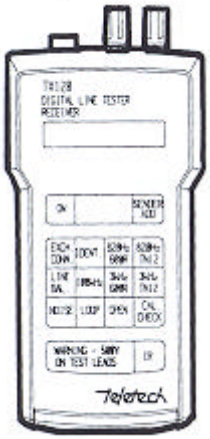
A Quality Endorsed Company

TX120A DIGITAL LINE TEST SET

WORLD PATENTS 27/11/98

SENDER

- Supplied with clip test lead and Exchange power lead
- Also available
  Siemens Series 71 test lead
  Siemens Series 2000 test lead
  Siemens Series 5000 test lead
- Powered by either exchange Battery or 9V internal battery



RECEIVER

- Supplied with clip test lead
- Krone test lead also available
- Powered by 9V internal battery

PROBE

- For pair identification
- Powered by 9V internal battery

INTRODUCTION

The TX120A is a low cost, multi-function test instrument, primarily for determining the suitability of twisted copper pairs for use by Pair Gain Systems, ISDN and HDSL but with application in the testing of such pairs for normal telephone services.

In many cases, the TX120A eliminates the need for expensive instruments such as Pulse Echo Testers (PETs) and Transmission Testers.

Loading coils build out capacitors and surge protection devices are necessary components of many POTS lines. Bridged taps, split pairs, poor joints and leaky insulation are conditions that are undesirable but often tolerated on POTS lines. However, all of these conditions seriously affect the operation of high frequency systems and must, therefore, be found and eliminated or corrected before such systems can be installed.

GENERAL

The TX120A consists of three main components. The SENDER is connected to one end of the line at the exchange, pillar or pit. The RECEIVER is connected to the other end of the line and displays all test results and controls the function of the SENDER. The PROBE is used, if necessary, to identify the pair under test.

FUNCTIONS

- Exchange Connection and Disconnection.
- Pair Identification.
- Line Insertion Loss measurement @ 820Hz and 3kHz.
- Line Insertion Loss measurement @ 40kHz, 100kHz and 150kHz.
- Noise measurement (continuous and peak capture).
- Line Looping (used for PET distance calibration and for Varley bridge fault location).
- Loop Resistance measurement.
- Line Isolation (used for testing with other instruments).
- Foreign Battery measurement (A-B, A-GND and B-GND) and Line Voltage measurement.
- Line Balance measurement.
- Insulation Resistance measurement (A-B, A-GND and B-GND).

FEATURES

- Incorporates the features of the well-known Teletech TX90 Loop-a-Line and TX95 Line Disconnect Accessory.
- Uses the same, robust low frequency signalling method as used in Loop-a-Line.
- SENDER and RECEIVER have remaining battery indication in hours.
- SENDER and RECEIVER have a two line by 16 character LCD display for test results and status messages.
- When being used in an exchange, the SENDER can be powered from the exchange battery.
- The RECEIVER has terminals for the connection of other instruments to the line.
- Powered by easily obtainable 9V alkaline batteries.
- Busies the line to incoming calls during testing.
- To conserve battery energy, the RECEIVER automatically powers down if inactive for more than two minutes.
- The warble rate of the pair identify tone is variable so that up to three SENDERS can be used simultaneously on different lines.
- SENDERS are addressable so that up to three can be used simultaneously on the same line.

TECHNICAL SPECIFICATIONS

40kHz, 100kHz and 150kHz Loss

Range / Resolution	0 to 60dB/1dB
Sender Level	0dBm
Impedance	(120-j23)Ω

820Hz Loss

Range / Resolution	0 to 20dB/0.1dB
Sender Level	-10dBm
Impedance	600Ω and TN12

3kHz Loss

Range / Resolution	0 to 20dB/0.1dB
Sender Level	-10dBm
Impedance	600Ω and TN12

Noise

Range / Resolution	-70 to -20dBm/1dBm
Weighting	3kHz Flat
Detection	Quasi-Peak
Displays	Continuous & Maximun
Duration	40hrs (battery life)

Loop Resistance

Range / Resolution	0 to 3kΩ/1Ω
Source	2.5VDC

Insulation Resistance

Tests	A-B, A-GND, B-GND
Range / Resolution	0 to 200MΩ/1MΩ
Source	500VDC
Duration	20sec x 3

Foreign Battery

Tests	A-B, A-GND, B-GND
Range / Resolution	-400 to +400VDC/1VDC

Line Voltage

Range / Resolution	-400 to +400VDC/1VDC

Line Balance

Range / Resolution	40 to 70dB/1dB
Source	1Vrms, 3kHz

Sender Physical

Dimensions	216 x 100 x 40mm
Power Supply	-48V Exchange battery or internal battery
Battery	9V Alkaline
Battery Life	Typically 40 hours use

Receiver Physical

Dimensions	216 x 100 x 40mm
Battery	9V Alkaline
Battery Life	Typically 40 hours use

Probe Physical

Dimensions	168 x 31 x 24mm
Battery	9V Alkaline
Battery Life	Typically 150 hours use

Environmental

Temperature	0 to 50°C
Humidity	<80% non-condensing

Note: Specifications subject to change at any time

Teletech

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