



Advanced Test Equipment Rentals

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A New Generation of Basic Rate ISDN Portable Test Equipment

Model 550B

Model 550B

ISDN BRI Everywhere: TPI Meets the Challenge

ISDN BRI Everywhere marks the wide deployment of ISDN services throughout the U.S. As ISDN technology has evolved, so has TPI.

Since 1983, Tele-Path Industries has developed and manufactured innovative generations of telecommunications test equipment from which has evolved an entire **family of Basic Rate ISDN test sets**. Rapidly-changing and increasingly-sophisticated advancements in ISDN technology make the task of meeting customer requirements for service and reliability more and more demanding, therefore, creating a critical need for easy-to-use, portable test equipment to handle the job quickly and efficiently.

With a comprehensive knowledge of customer needs, TPI is constantly meeting the challenge of keeping ISDN services up and running with minimal customer downtime.

Introducing the Model 550B: TPI's Most Popular Family Connection

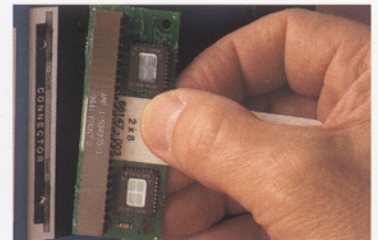
TPI's 550 series has become the industry standard for portable Basic Rate ISDN test equipment and is used by most major ISDN service providers in the U.S., including the largest independent GTE and ALL Regional Bell Operating Companies (RBOC's).

Features and Applications of the 550B: Versatility That Runs In The Family

The 550B offers a full array of features, functions and performance capabilities with considerable built-in flexibility to turn-up and troubleshoot services of today – **Basic Rate ISDN, EBS (P-Phone)** and **POTS** – as well as those of tomorrow. This powerful, hand-held test set supports **all U.S. Call Controls**, as well as ISDN Central Office switches, and is equipped with a removable EPROM card which enables easy upgrades to meet evolving test requirements.

The EPROM card easily snaps into place. Free upgrades are provided during the 12-month warranty period, with an extended 3-year firmware upgrade option available.

*ISDN BRI
Everywhere
makes service
turn-up and
quick trouble
resolution even
more critical.*



TPI
TELE-PATH INSTRUMENTS

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A broad range of analysis and testing features is made simple by this very versatile test unit. TPI engineers have designed the 550B as a full-featured, multi-function test set with a strong emphasis on ease of use. Without the need for formal retraining, the ISDN field technician can get the job done in the shortest amount of time. The user-friendly design incorporates an easy-to-follow, menu-driven screen display featuring clear and distinct messages and prompts for quick turn-up and trouble resolution.

Battery-powered and weather-resistant, the 550B is built to test lines under all field conditions anywhere...anytime. The built-in speaker and microphone enable *hands-free* operation, with an optional handset available for use in high-noise areas. Speed-dial and last-number redial functions are included for convenience.

For turn-up, your 550B becomes a dependable servicing tool for:

- Verifying customer services (**Voice, Data and Packet Data**),
- Determining line quality with **BERT testing**, and
- Checking service translations, including **Dual Call** support necessary for testing two B-channels simultaneously for multi-media applications, such as Personal Video Conferencing.

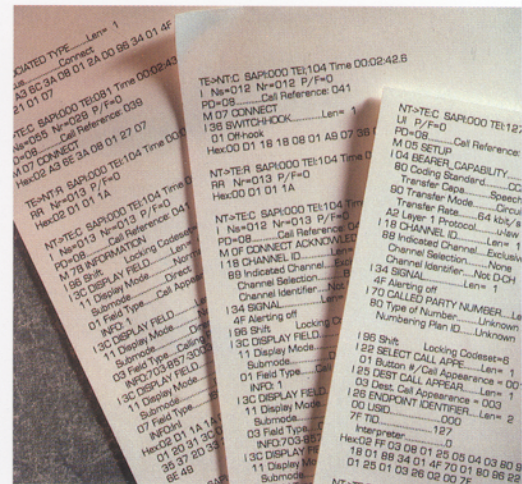
From the standpoint of troubleshooting, the 550B allows you to quickly isolate and resolve problems using selectable interfaces and test modes:

“U” AND “S/T” INTERFACE TESTING

The 550B test set has the capability to test the ISDN network at the **2-wire “U” interface** using the 2B1Q line coding, as well as at the **4-wire “S/T” interface**. Testing at both of these interfaces can include Margin Analysis using selectable **dB Loss Pads**. Vital information is indicated by LEDs for each interface including Sync, Active and Ready status.

EMULATION

The 550B can emulate the NT1 or the TE (an ISDN phone, for example), or a combination of the two (NT1/TE), and is, therefore, capable of testing certain elements in isolation, a particularly important feature when resolving a problem.



D-Channel Decode Output from Printer

DETAILED ANALYSIS

Analysis of **Layers 1, 2, and 3** and **D-Channel Messaging** is provided. D-channel messaging is decoded into English and formatted for easy reading when transmitted to an external device such as a P.C. or printer via the Data Access Connector.

Continuing the TPI Family Tradition of Quality

As always, TPI's policy is to understand and meet our customers' requirements and to exceed their expectations. We believe that the 550B Basic Rate ISDN test set represents the ideal solution for the critical testing demands brought about by the rapidly-evolving ISDN environment. We are proud to offer a complete line of quality products, backed by an experienced team of technical specialists. Our commitment to quality ensures accurate, reliable test results on which you can depend.

For more information about our family of ISDN test equipment or to arrange for a field demonstration, please contact our sales representative or call us directly, 540-375-0500 (Fax: 540-375-0505).



Model 550B

Specifications

FEATURES

Interfaces

- "U" Interface 2B1Q
- "S/T" Interface
- EBS (P-Phone) Interface - *optional*
- POTS Interface - *optional*

Voice Capability

- Hands-Free Operation
& Handset Interface
- DTMF Dialing
- B-Channel Selection
- Dual Call Feature
- Selectable Call Appearance
- Calling Party ID

Data Capability

- Circuit Switched Data Calls
selectable speed 56/64K
- Packet Data Calls (D- and B-Channels)
- Dual Call Feature
- Data Access Connector
RS-232/DB 9-pin Connector
- B-Channel Delay

Analysis

- Cause Messages
- Layer 1 Info States
- Layer 2 (LAPD)
- Layer 3 (Call States)
- D-Channel Decode Monitor (DB-9)

Controls

- Speaker Phone
- Volume Control
- Dial Pad
- Four-Line Display with Soft Keys
- User-Friendly Menu Selections
with Interactive Soft Keys

Accessories

- Handset
- Test Cords
- "Heat Coil" Access Cord
- Soft-Pack Carrying Case

MEASUREMENTS

ISDN Testing

- Call Controls (AT&T& NTI Custom, National)
- Modes: NT1, TE, NT1/TE
- U: 2B1Q CRC/FEBE Errors & Errored Seconds
- U: AMI Frame Errors & Errored Seconds
- S/T: Frame/BPV Errors/Errored Seconds
- Bit Error Testing (BERT), Dual TX/RX
- Timed Tests
- Network Loopbacks
- User Configured Loopbacks
- Margin Testing (dB Loss Pad Selection)
- BRITL Test Support
- 40KHz Test Tone Generation
- Automated Dual Call Testing

EBS Testing

- Device Emulation (Primary or Extension
Telephones and Add-On Units)
- Place and Receive Calls
- Control Message Decode and
English Formatted Output
- Signal Level (8KHz)
- Voltage
- Line Resistance
- Sealing Current/Polarity

POTS Testing

- Sealing Current/Polarity
- Place and Receive Calls
- Calling Party I.D.

GENERAL

Physical

- Hand-Held: 4¼" w x 2" d x 9½" L
- Weight: 2½ Pounds
- Quick Reference Lid Label

Power

- Rechargeable NiCad Battery
with AC Adapter Charger
- 8 Hours Continuous Use
- Auto Shut-Off Mode

Firmware

- Field-Replaceable EPROM Card
- 3-Year Firmware Agreement Option

TPI's ISDN Family :

- Basic Rate Test Equipment
- Primary Rate Test Equipment
- "U" Interface Emulators/Analyzers
- Automated BRI Test Line Equipment

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