



**LBT**

## **Bit Error Rate Tester**

### **FEATURES**

- Bit error rate tester for sync or async links
- Data rates up to 38.4 kbps
- Point-to-point or multipoint
- Several test patterns
- Internal or external clocking
- Simple, straightforward operation



### **DESCRIPTION**

■ The LBT is a Bit Error Rate Tester for testing synchronous or asynchronous modems and other DCEs. Testing can be conducted over full duplex or half duplex links. The LBT can also test modems connected in multipoint configuration for polling operation. A network with up to 32 slave modems is supported.

■ The LBT operates synchronously or asynchronously at data rates from 75 bps to 38.4 kbps. When operating in synchronous mode, five test patterns are available: 511 or 2047 pseudo random, 7 space 1 mark, 7 mark 1 space, or alternating mark/space. In asynchronous and multipoint modes, only the 511 bit pattern is available.

■ When testing a DCE, a loop is performed, sending the data back to the LBT. The LBT compares the received data with the transmitted pattern and presents the result on an LCD display, counting bit errors, block errors and error-seconds. The LBT also features an INJECT ERROR push button which enables the user to check the tester and the line by introducing errors in the transmitted data stream.

■ Block sizes can be set to 512 bits, 1000 bits, 1024 bits, 2048 bits and 10 kbits. When testing multipoint, a block size of 512 bits is used.

■ The LBT can generate its own clock or receive clock from the connected DCE.

■ Set-up and operation are initiated from the front panel using soft keys and an interactive menu selection on an LCD message display. Ten indicator LEDs display the activity of the interface signals.

■ The LBT comes in a convenient hand-held case. The unit is powered by a detachable external power supply unit.

## SPECIFICATIONS

### Data Format

Sync or async

### Sync Clock Source

Internal or external

### Data Rates

75, 300, 600, 1,000, 2,400, 3,600,  
4,800, 7,200, 9,600, 14,400,  
19,200, 38,400 bps

### Number of Data Bits in Async Mode

8, 9, 10, 11 includes 1 start and 1 stop bit, with or without parity

### Parity Options

Odd, even, none

### RTS

User-controlled for full duplex

### Polling

Up to 32 slave channels supported

### Terminal Interface

RS-232/V.24 integral 25-pin  
D-type, male connector

### Power

115 V or 230 V ( $\pm 10\%$ )

### Physical

#### LBT:

Length: 17.5 cm / 7.0 in  
Width: 9.5 cm / 3.8 in  
Height: 4.0 cm / 1.5 in  
Weight: 405 g / 14 oz

#### Power Supply Unit:

Length: 12.0 cm / 4.7 in  
Width: 6.5 cm / 2.5 in  
Height: 4.0 cm / 1.6 in  
Weight: 340 g / 12 oz

### Environment

Temperature: 0-50°C/32-122°F  
Humidity: Up to 90%,  
non-condensing

## ORDERING

### LBT\*

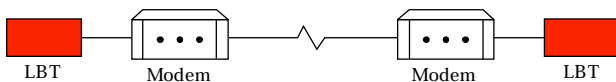
Bit Error Rate Tester

\* Specify:

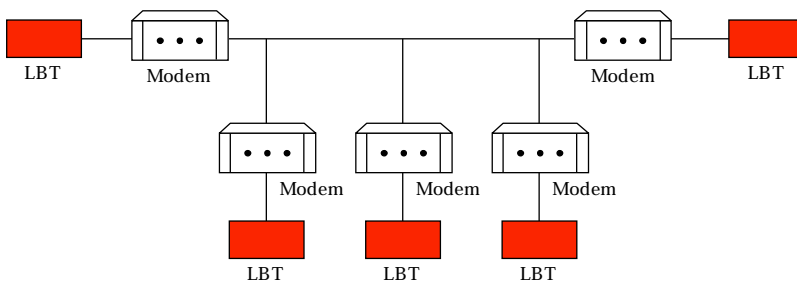
**115** for 115 volts operation

**230** for 230 volts operation

## APPLICATION



Point-to-Point Testing



Multipoint Testing

Specifications are subject to change without prior notification

data communications

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