



MR-2000E

The MR-2000E E1 tester provides quick and easy diagnosis of DS1-based networks. This lightweight, easy-to-use test instrument simplifies installation and maintenance tasks. It supports alarm generation and detection, error monitoring and DS1 bit error rate testing (BERT). The unit weighs less than 1 pounds, and can generate up to 32 industrial standard test patterns. The AUTO measurement feature makes the MR-2000E DS1 tester one of the most easy, versatile and functional handheld tester available today.



FEATURES

- Complete E1/Fractional E1 Tester
- Fully independent DS0 transmit and receive functionality
- Automatically syncs and generate to 32 industrial standard test patterns
- Performs Bit Error Rate Testing (BERT)
- Generates and detects in-band loop codes from 1 to 8 bits in length including CSU loop codes.
- Support FAS, CAS, and CRC-4 formats
- Measures E1 frequencies
- Displays standard E1 alarms, performance parameters, and line coding
- Capabilities of ignore or enable individual alarm at your choice.
- Handheld and battery powered(12 hours of operation between charges)
- The user-friendly Auto and Help keys make the test become simple

Specifications

- Input Signal: E1 or Fractional E1
- Line rate: 2.048Mbps
- Clock source: Remote(Line) or Local
- Sensitivity: 0 to -43dB
- Framing: FAS, CAS, or CRC-4
- Line coding: HDB3 or AMI
- Line build out (DSX-1): 120 ohms
- Line build out (DS1): 0dB
- Extracting and inserting signaling data, Si and Sa bit information.
- Automatic receive sensitivity
- ERROR COUNTERS
 - ◆ BPV Errors, Error Rate
 - ◆ FRAME Erros
 - ◆ CRC Erros
 - ◆ Logic Errors, Error Rate

PATTERNS

- Pseudorandom patterns
 - ◆ 2E3-1
 - ◆ 2E4-1
 - ◆ 2E5-1
 - ◆ 2E6-1
 - ◆ 2E7-1
 - ◆ 2E9-1(511)
 - ◆ 2E10-1
 - ◆ 2E11-1(2047)
 - ◆ 2E15-1
 - ◆ 2E15-1 Inverted
 - ◆ 2E17-1
 - ◆ 2E18-1
 - ◆ 2E20-1(O.153)
 - ◆ 2E20-1(QRSS)
 - ◆ 2E21-1
 - ◆ 2E22-1
 - ◆ 2E23-1(O.151)
 - ◆ 2E23-1 Inverted
 - ◆ 2E25-1
 - ◆ 2E28-1
 - ◆ 2E29-1
 - ◆ 2E31-1
 - ◆ 2E32-1



- Repetitive patterns
 - ◆ All Ones
 - ◆ All Zeros
 - ◆ Alternating Ones and Zeros
 - ◆ Double Alternating Ones and Zeros
 - ◆ 3 in 24
 - ◆ 1 in 16
 - ◆ 1 in 8
 - ◆ 1 in 4

Connectors

- E1 Input: Bantam Jack, RJ-45
- Power: DC Power Jack

Physical

- Size: 7.5"L x 4"W x 1"H
- Weight: 1 lbs.
- Display: 4 line by 16 character LCD
- Keypad: 16 position

Power

- Batteries: 4 Rechargeable AA Nickel-metal Hydride
- Battery Life: 12 hours
- Recharge Time: 8 hours (unit can be in use while charging)
- AC Operation: External AC adapter/charger 100-240 VAC, 50-60Hz

Environmental

- Operating Temperature: 0C to 50C
- Storage Temperature: -20C to 60C
- Humidity: 5% to 90% non condensing

Equipment Supplied

Each MR-2000E E1 Tester is supplied with the following:

- User manual
- AC line charger
- A belt attachable pouch
- Two 6 feet Bantam cables
- Internal 4 AA Nickel-Metal Hydride batteries



Teletec System Integration

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