

Multicom Research, Inc.

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MR-2000E

The MR-2000E DS1 tester provides quick and easy diagnosis of DS1-based networks. The lightweight, easy-to-use test instrument simplifies installation and maintenance tasks. It supports alarm generation and detection, error monitoring and DS1 bit error testing (BERT). The unit weights less than 1 pound, 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/Fraction 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-board loop codes from 1 to 8 bits in length including CSU loop codes
- Support FAS, CAS and CRC-4 formats
- Measure E1 level and frequencies
- Display standard E1 alarm, performance parameters, and line coding
- Capabilities of ignore or enable individual alarm at your choice
- Handheld and battery powered (12.5 hours of operation between charges)
- The user-friendly Auto and Help keys make the test 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 and CRC-4
- Line coding: HDB3 or AMI
- Line build out (DSX-1): 0-133ft, 133-266ft, 266-399ft, 399-533ft, 533-655ft
- Line build out (DS1): 0dB, -7.5dB, -15dB, or -22.5dB
- Automatic receive sensitivity
- ERROR COUNTERS
 - BVP Error, Error rate
 - FRAME Error
 - CRC Error, Error rate
 - Logic Error, Error rate

PATTERNS

- **Pseudorandom pattern**

- 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
- 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
- Alternative 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: 1lbs.
 - Display: 4 lines by 16 character
 - Keypad: 16 position

POWER

- Batteries: 4 Rechargeable AA nickel-cadmium
- Battery Life: 12.5 hours (continuous use under power conservation mode), 8 hours (without power conservation mode)
- Recharge Time: 8 hours (unit can be in use while charging)
- AC Operation: External AC adapter/charger 120VAC, 60Hz

ENVIRONMENTAL

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

EQUIPMENT SUPPLIED

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

- User manual
- AC line charger
- A belt attachable pouch

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