

E1-WATCHER™ Comprehensive 2048 kbit/s Monitoring

The E1-WATCHER gives you the capabilities you need to identify and isolate problems in your 2048 kbit/s network, in a compact, lightweight, battery operated unit that fits in the palm of your hand. The E1-WATCHER is a full featured performance monitor that provides level and frequency measurements, time slot access, signaling bit display and basic performance statistics. Yet, for all its capability, it is simple to use. The E1-WATCHER automatically configures itself to the framing of your 2048 kbit/s signal and synchronizes to a test pattern on the full 2048 kbit/s signal or on an individual 64 kbit/s time slot.

- Auto-configuration
- Internal speaker
- Time slot access
- Performance statistics
- Signaling bits



SPECIFICATIONS

EW 1 E1-WATCHER™

RECEIVER

Clock Source: Recovered from received data
Line Codes: AMI or HDB3 selected automatically
Framing: FAS with or without CRC-4
MFAS with or without CRC-4
Unframed
Test Patterns: 2⁶-1, 2⁹-1, 2¹¹-1, 2¹⁵-1, 2²⁰-1, QRSS
2²³-1, All 0's, 1:7, 1:3, 1:1, All 1's
Channel Format: None (Full E1) or 64x1

INPUT

Connector: Bantam jack
Adapter Cable: Bantam-to-Bantam (option 01)
(one provided) Bantam-to-BNC 75 ohms (option 02)
Bantam-to-Siemens 3-pin,
120 ohms (option 03)

LEVEL RANGE

Terminate & Bridge: +6 dBm to -36 dBm
Monitor: -14 dBm to -40 dBm

IMPEDANCE

Terminate & Monitor: 75/120 ohms ±5%
Bridge: Greater than 1000 ohms
Auto Configuration: Line coding, frame format,
and test pattern

MEASUREMENTS

Error Code (BPV)
FAS
MFAS
CRC-4
Far End Block (FEBE)
Pattern
Errored Seconds and Time: Errored Seconds
Percent errored seconds
Error free seconds
Percent error free seconds
Elapsed test time

**E1 (2048 Kbit/s)
and channel:** E1 frequency and level
Voice channel number
and data
Voice channel signaling
Voice channel frequency
and level
Peak code and level
A, B, C and D signaling
all 30 channels
Contents of NFAS
and MFAS words

PHYSICAL

Display: 2 line by 16 character
Indicators: Signal Present, HDB3, FAS Sync
MFAS Sync, CRC-4, Pattern Sync,
Errors, Bat Low, AIS, TS-16 AIS,
FAS Distant, MFAS Distant
Size: 140mm L x 95mm W x 63mm H
(5½" L x 3¾" W x 2½" H)
Weight: 0.6 Kgram (1¼ lbs.)
Operating Temperature: -20°C to 60°C
Storage Temperature: -30°C to 90°C
Humidity: 10% to 90% noncondensing

POWER

Batteries: Rechargeable
Battery Life: 5 hours minimum per charge
Recharge Time: 6 hours nominal
AC Operation: 115/230 vac, 50/60 Hz



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Specifications subject to change without notice.



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