IVR-E1-2048

Handheld E1 tester

IVR-E1-2048 is a handheld E1 tester for analyzing error code performance of digital channels. It features complete functions and simple operation. It analyzes error codes of transparent E1, E1 FRAMED, E1 ONLINE, and optionally can analyze asynchronous RS232, synchronous RS232, synchronous V.35, V.35 FRAMED, and Synchronous TTL level interfaces. The IVR-E1-2048 can measure the frequency of input digital signals.

The IVR-E1-2048 is the ideal tool for communication engineers and technicians.

- **Complete interface types and rates that meets the requirements of tests of various kinds of digital channels**
- **Measures the frequency and frequency deviation of receiving signals at an accuracy of 10ppm**
- **Small volume and high portability that makes it suitable for field test**
- **Automatically records test results, than can be retrieved in any time**
- **With the test results and analysis of various performance indicators, the meter can comprehensively reflect the quality of communication channels**
- **Chargeable Lithium battery and low power consumption design**
- **Highly accurate real-time clock function**

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Front Panel Diagram

- Switch off power before plugging in or out the 25-pin interface (Optional, not standard included).
- The meter uses AC165V ~265V 50/60Hz regulated power supply.
- The meter uses Lithium battery. Please charge it every other year if it has not been used for a long time.
- Put the meter in a dry and ventilative place and keep off heat source and from sun, vibration, moist and dust.
- Cleaning enclosure with little neutral detergent is allowed. Never clean it with alcohol, gasoline or other organic solvents.

Function

Interface type	Preset Interface rate	Customized Interface rate	Code pattern	Connector
E1 2048K	2048Kbps, ±10ppm	2048Kbps, ±100ppm	HDB3	BNC
E1 ONLINE	2048Kbps, ±10ppm	2048Kbps, ±100ppm	HDB3	BNC
E1 FRAMED	2048Kbps, ±10ppm	2048Kbps, ±100ppm	HDB3	BNC
Asynchronous RS232	1.2Kbps ~ 128Kbps	1bps ~ 128Kbps	NRZ	DB25
Synchronous RS232	1.2Kbps ~ 128Kbps	1bps ~ 128Kbps	NRZ	DB25
Synchronous V.35	64Kbps ~ 2048Kbps	1bps ~ 10Mbps	NRZ	DB25
V.35 FRAMED	2048Kbps, ±10ppm	2048Kbps, ±100ppm	NRZ	DB25
Synchronous TTL level	64Kbps ~ 2048Kbps	1bps ~ 10Mbps	NRZ	DB25

Code Patterns

Repetition code	Pseudo random sequence code
All 0	2^4-1 (15)
All 1	2^6-1(63)
ALTER 0,1	2^9-1(511)
	2^{11}-1(2047)
	2^{15}-1(2^{15}-1)

- Statistics on various error code performance indices, such as: error bits (EB), error seconds (ES), bit error rate (BER), severely errored seconds (SES) and unavailable second (UNA);
- Various kinds of analysis on error code performance, such as: BASIC ANALYSIS, STATISTIC ANALYSIS and SIGNAL ANALYSIS;
- Test results are automatically recorded into internal memory in which they are available in any time and can be downloaded to PC through USB cable. In PC, more detailed analysis of error code performance can be done under the help of software installed in the computer.

- *InterVRE reserves the right to alter and amend the design, characteristics and specifications without notice or obligation.*

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