IRIG-B Analyzer

Intuitive Portable Analyzer and Decoder of IRIG-B Signals

Features

- Decode over 24 IRIG-B timecodes with extensions
- IRIG-B DCLS, AM and Modified Manchester decoding
- Electrical and optical signals decoded
- IRIG time, type and signal levels provided
- Ruggedized, handheld device
- Intuitive user interface
- Battery powered
- Field upgradable firmware
- 2.5" backlit display
- Adjustable Brightness
- Carry case

Rapid Identification of IRIG-B Signals

Whether for the test range or substation, the IRIG-B Analyzer is a versatile IRIG-B decoding device used to quickly decode a wide range of IRIG-B signals. This includes modulation types, extensions, and voltage levels. This device is perfect for when an unknown IRIG-B signal needs to be verified without having to manually interpret IRIG-B timecodes on an oscilloscope or strip chart device.

Eliminate Trial and Error Techniques

Knowing the IRIG signal type and voltage level can quickly help determine if the expected timecode is being provided, and if the signal level is high enough for the IRIG-B reader to lock to the signal. This saves time in identifying if the cable is too long, or having to repeatedly adjust settings on the IRIG reader in hopes of getting the time to lock.

Portable and Battery Powered

The IRIG-B Analyzer runs on two standard AA batteries, allowing the device to operate completely independent of an external power supply and works wherever you go. This can be a tremendous time saver if a timecode needs to be identified and the traditional lab test equipment is not readily available. Stored in the rugged carry case, the IRIG-B Analyzer is the perfect complement for any test range or substation service truck or van.

Ruggedized

The analyzer is equipped with a rubber exterior and a protective case to resist environmentally harsh treatment common on the range and in substations.

Convenient

The hand-held form factor, low weight, and protected carry case provides a convenient diagnostic tool for all IRIG-B installations. By always keeping this on site you can ensure that it is readily available when you need it.

With the adjustable brightness, the IRIG-B Analyzer operates as easily in dark spaces as very bright ones, reducing eye strain and improved visibility for the user.

Intuitive

The analyzer is simple to use and requires no training to learn how to use the device. Simply connect the device to an IRIG-B signal to one of the interfaces, either optical fiber or copper cable, and automatically receive your decoded IRIG-B signal in an easy to read and understandable format.

MICROCHIP

Front Panel

Specification	Details
Display	2.5" backlit monochrome LCD
Display Information	IRIG-B • Time • Date • Quality • Extensions • Binary seconds • Waveform RMS voltage

Supported Voltage and Time Codes

Specification	Details
Supported Voltages	Maximum (±300V) • TTL (±5V) • RS232 (±13V) • RS422 (±6V) • RS485 (±7V)

Time Codes	• DCLS IRIG-B
	  • B000, B001, B002, B003, B004, B005, B006, B007
	• AM IRIG-B
	  • B120, B121, B122, B123, B124, B125, B126, B127
	• Modified Manchester
	  • B220, B221, B222, B223, B224, B225, B226, B227
	• Extensions
	  • C37.118.1
	  • IEEE 1314
	  • AFNOR NFS 87-500

Physical and Electrical

Specification	Details
Size	65 mm/2.55" (L) 82 mm/3.22" (W) 26 mm/1.02" (H)
Form Factor	Hand-Held
Power Supply	2x AA Batteries
Operating Temperature	0°C to 50°C 32°F to 122°F
Storage Temperature	0°C to 50°C 32°F to 122°F
Humidity	≤95%, non-condensing
Weight	400g/0.88 lb
Ingress Protection	IP41
Certifications	IEC 61010-1, CAT III rating, CE, AS/NZS 4417

Inputs

Specification	Details
Fiber	62.5/125 µm λ 820 nm SC Fiber connection
Test Leads	1.2m banana test leads
Bluetooth	Optional (disabled by default)

Intuitive User Interface

Electrical and Optical Inputs

Product Includes

Carry Case	IRIG-B Analyzer	1.2m Test	SC to ST Fiber Adapter	BNC T Connector

MICROCHIP