Inovonics 510

Decode, read and qualify RDS/RBDS data

A SELF-CONTAINED DECODER/READER FOR RADIO DATA

Connect the Inovonics 510 to any FM Mod-Monitor or receiver to decode and read all the common RDS/RBDS data groups. Verify the data your station sends, and read data from other stations in the market at well. The 510 also gives a precise digital readout of subcarrier injection level.

Using the 510 is easy. A fast-access Glossary of Terms utility defines abbreviations and takes the user directly to any data group of interest. The 80-character LCD display scrolls through station, format and program IDs, alternative frequencies, radiotext and in-house messages, traffic flags, etc. Archive and analyze data from customized services (paging, GPS) with any PC using the built-in RS-232 interface.

Inovonics
1305 Fair Ave. • Santa Cruz, CA 95060
TEL: (831) 458-0552 • FAX: (831) 458-0554
www.inovon.com • e-mail: info@inovon.com

Inovonics 510

Features & Specifications

- **Easy installation - simply connect the 510 to the Composite Output jack of any Modulation Monitor.**

- **The setup mode references 100% carrier modulation with digital precision for fast, accurate calibration and metering of the RDS/RBDS subcarrier injection level.**

- **Inovonics' unique "Glossary" utility defines the RDS/RDBS abbreviations, then automatically locates and displays the subject data group.**

- **A built-in RS-232 port provides a 2-way computer interface. Optional software permits more comprehensive data analysis.**

STANDARDS SUPPORTED
European CENELEC and United States NRSC standards are accommodated with appropriate software versions.

GROUPS SUPPORTED
0, 1, 2, 3, 4, 5, 6, 7, 9, 14, 15.

APPLICATIONS DISPLAYED
"Screen No." refers to the various LCD screens of information that may be manually selected for display. These screens have been assigned for best display efficiency; screen numbers do not necessarily agree with data group numbers!

Some RDS/RBDS groups have provision for separate "A" and "B" sets, or versions, of radio data. Screen numbers with an "A" or a "B" indicate that separate versions of the application may be viewed independently.

Screen No.	Application
01A, B	PI, PS, PIN, PTY
02A	TP, TA, M/S, DI, CT
02B	TP, TA, M/S, DI
03	AF (up to 25 AM, FM, LW)
04A, B	RT (64 characters)
05A, B	IH (64 characters)
06A	TDC, RP
07	EWS (2-digit code followed by ASCII text)
08A	EON (PI, PS, TA, AF)
08B	EON (PI, TA)
09	RDS/RBDS subcarrier injection level
10	Listing of groups being received

Rear view

For an explanation of application abbreviations, please consult the appropriate RDS or RBDS published specification.

FRONT PANEL READOUT
The backlighted LCD panel displays 2 lines of 40 characters, each. Data groups that carry plain-text messages are supported with a full set of ASCII characters, plus certain language-specific alternate characters. Hexadecimal values are shown for other data groups, depending on the software version supplied.

DISPLAY SELECT BUTTONS
Front-panel "up/down" buttons manually cycle through the various LCD "screens" of RDS/RBDS data. When both buttons are depressed simultaneously, the Model 510 displays a Glossary of RDS/RBDS Terms.

COMPOSITE INPUT
10k-ohm, unbalanced/bridging input accepts 1-10V p-p, corresponding to 100% carrier deviation.

RS-232 DATA INTERFACE
Rear-panel DB-9 socket may be connected directly to the COM (serial) port of an IBM-compatible PC.

POWER REQUIREMENT
105-130VAC or 210-255VAC, 50/60Hz; 20W.

SIZE AND SHIPPING WEIGHT
1¾"H x 19"W x 6"D (1U); 7 lbs.

Inovonics
1305 Fair Ave. • Santa Cruz, CA 95060
TEL: (831) 458-0552 • FAX: (831) 458-0554
www.inovon.com • e-mail: info@inovon.com

printed in the USA 01/00