

# 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 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/RBDS 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)



Rear view

04A, B	RT (64 characters)
05A, B	IH (64 characters)
06A	TDC, RR
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

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

### FRONT PANEL READOUT

The backlit 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

1<sup>3</sup>/<sub>4</sub>"H x 19"W x 6"D (1U); 7 lbs.