

## UECP COMPATIBLE RDS/RBDS ENCODER WITH LAN, USB & RS-232 CONNECTIVITY

The SmartGen 5 encoder has all the features you would ever need from an RDS encoder at a fantastic price. SmartGen 5 supports all RDS Applications in conformity with European CENELEC and United States NRSC standards and is fully compatible with UECP EBU SPB490 Version 7.05

The interactive function RT+ for song tagging is fully supported without a compromise. The SmartGen 5 can 'parse' scrolling text, automatically breaking phrases into word groups. Based on the latest RDS technology, the SmartGen 5 is fully digital design for 24/7/365 operation. The SmartGen 5 is cost effective solution for sending TMC and EWS Services. The front-panel LCD displays setup parameters without the need for an on-site computer, and also shows incoming raw data from station automation as well as exactly what the listener sees on his radio.

Supplied with free of charge, dedicated programming software "SmartGen RDS/RBDS Encoders Manager" this encoder programming is simple and foolproof like never before. SmartGen 5 comes along with Embedded WEB Server for remote and easy programming and supervision. SmartGen 5 gives dynamic programming access with its built-in RS232, USB, TCP/IP, UDP/IP interfaces. This connectivity permits full integration of RDS/RBDS transmissions with the station's other networked functions like message streams for Webcasting or Digital Radio. The SmartGen 5 encoder provides a full loopthrough interface for connection to your existing broadcast chain.

### FEATURES

- Front panel LCD Display and Buttons for operating without a computer
- Remote configuration via ASCII or UECP through RS232, LAN, USB
- Supports European CENELEC and United States NRSC standards
- Displays outgoing scrolling messages exactly as seen by listener
- Includes the TA function for traffic message priority override
- Real time clock Schedules for Scrolling Text and text lists
- SNTP for automatic synchronization of the built-in clock
- Attractive price and very good price-performance ratio
- Fully compatible with UECP EBU SPB490 Version 7.05
- Internal data diagnostics and transmission safeguards
- Interfaces with all popular radio automation systems
- Compatible with EWS (Emergency Warning System)
- Proved and reliable hardware for 24/7/365 operating
- Embedded WEB server for interactive supervision
- Remote RDS viewer to visualize broadcasted data
- 4 General Purpose Outputs
- Easy Installation and Setup
- Built-in failsafe bypass relay
- LAN, USB & RS-232 Interfaces
- PS & Radio Text Scrolling Options
- Fully Digital Synthesis of RDS signal
- MPX Loopthrough & Sidechain Modes
- Supports TMC (Traffic Message Channel)
- Very Intuitive UECP Configuration Software
- 19" Professional Case for high RF immunity
- Supports RT+ for songs and content tagging
- Tally port for Traffic Announcement switching
- Internal or external Pilot / MPX synchronisation
- Works with any FM exciter and stereo generator
- Built-in dedicated 19kHz source for internal sync



## SPECIFICATIONS

| RDS FEATURES   |                           |
|--|---------------------------|
| Group supported  | All                       |
| Group Sequence   | Configurable              |
| PS   | 6 DSN x 4 PSN             |
| PI   | 6 DSN x 4 PSN             |
| PTY  | RDS/RBDS                  |
| AF Method A  | 25                        |
| AF Method B  | up to 100                 |
| RT   | Yes, 10 messages          |
| RT rate adjustment                                     | Group Sequence            |
| RT+ for songs and content tagging                      | Yes                       |
| TP   | Yes                       |
| TA   | Contact closure, Software |
| PTYN   | Yes                       |
| EON  | 4 PSN                     |
| CT   | Yes                       |
| TMC, EWS, IH, TDC                                      | Yes                       |
| Free Format Groups (FFG)                               | Yes                       |
| Open Data Application (ODA)                            | Yes                       |
| 64-character Dynamic PS                                | Yes                       |
| Auto "parses" long messages for best text display      | Yes                       |
| Scrolling by character                                 | from 1 up to 8            |
| Scrolling by word, Auto centering, Truncate long words | Yes                       |

| TECHNICAL SPECIFICATIONS                             |   |
|--|---|
| Chassis Dimensions                                   | 1Ux19"x7", 44x485x178mm                                 |
| Shipping Weight                                      | 3kg   |
| Power Supply   | Internal, 115V or 230V                                  |
| Pilot/MPX Input                                      | Yes   |
| MPX/RDS Output                                       | 0 to 4095 mV  |
| Inputs/Outputs                                       | 4 GPO, TA Input   |
| Communication Port                                   | RS232, USB, LAN   |
| Synchronization                                      | External (Pilot or MPX); Internal; Auto                 |
| Synchronization Monitoring                           | Yes   |
| RDS Level adjustment                                 | Digitally controlled                                    |
| Phase adjustment                                     | Yes, 0 ÷ 359.9°   |
| Activate RDS SCA w/ Command                          | Yes   |
| EN50067 compliant                                    | Yes   |
| Side Chain Mode, Loop through mode, Bypass feature   | Yes   |
| RDS Subcarrier                                       | 100% Digitally Generated Shape                          |
| Pilot synchronization                                | Input Level: -50dBu to +12dBu<br>Frequency: 19kHz, ±3Hz |
| Accurate Clock Time (CT) Sync w/ Internet Connection | Yes   |
| Remote TA actuation for Traffic Announcements        | Yes   |
| Firmware can be upgraded in the field                | Yes   |
| Front-panel LCD displays all programmed data         | Yes   |
| Data may be entered on-site with Front-panel Buttons | Yes   |
| Operating Temperature                                | 0°C ÷ 55°C  |

## COMMUNICATION

|  |  |                                     |     |
|--|--|-------------------------------------|-----|
| Communication Interfaces                 | RS232, USB, LAN                          | Password Protection                 | Yes |
| Connection with Automation Software      | Yes                                      | ASCII Protocol                      | Yes |
| Network Connectivity                     | 2 TCP ports, 2 UDP ports                 | UDP, TCP, HTTP, SNTP                | Yes |
| Scheduler                                | Yes                                      | PI <=> CALL Calculator              | Yes |
| Configuration                            | Embedded Web Server, SmartGen Manager    | Remote Display                      | Yes |
| UECP Protocol                            | Fully compliant with EBU SPB490 Ver.7.05 | Supplied with Intuitive Software    | Yes |
| Accepts both ASCII and UECP Command Sets | Yes                                      | Comes with 2-years Limited Warranty | Yes |



WE NEVER SPARE EFFORTS AND RESOURCES TO TURN OUR IDEAS INTO SUCCESSFUL PRODUCTS