SmartGen 3.1

BASIC RDS/RBDS ENCODER

SmartGen 3.1 Encoder is the quick and inexpensive way to have an RDS/RBDS presence. The SmartGem 3.1 is able to transmit basic RDS information such as the Program Service name(PS), Program Identification(PI), Alternative Frequencies(AF), Program Type(PTY). Decoder Information and Music / Speech flag are also supported. USB connectivity makes it easy to program the non-volatile memory using any PC and the supplied Windows® software. After programming, the unit may be disconnected and re-installed at the transmitter site. Though it is not capable of "dynamic" messaging with song titles, SmartGen 3.1 will identify your station by format, display your station's "street name", and continuously transmit any station promo or advertising message to your listeners.

FEATURES

- Very Attractive Price
- Very Good Price-Performance Ratio
- Works with any FM exciter and stereo generator
- PS & Radio Text Scrolling Options
- Built-in dedicated 19kHz source for internal sync
- Fully Digital Synthesis of RDS signal
- Very Intuitive Windows Configuration Software
- MPX Loopthrough & Sidechain Modes
- Supports both RDS & RBDS standards
- Easy Installation and Setup
- 19" Case for high RF immunity
- USB Programming Interfaces
- Proved and reliable hardware for 24/7/365 operating
- Built-in failsafe bypass relay
- Internal or external Pilot / MPX Synchronisation

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SPECIFICATIONS

Technical Specifications	
Pilot/MPX Input	Yes
MPX/RDS Output	0 to 3199 mV
Inputs/Outputs	No
Communication Port	USB
Synchronization	External (Pilot or MPX) / Internal / Auto
Synchronization Monitoring	No
RDS Level adjustment	with trim pot
Phase adjustment	Yes
Separate outputs for RDS+MPX and for RDS only	No
Command to activate the RDS SCA	No
Side Chain Mode, Loop through mode, Bypass feature	Yes
RDS Subcarrier	100% Digitally Generated Shape / Bypass: 0 dB
Pilot Sync	Input Level: -50dBu to +12dBu / Frequency: 19kHz, ±3Hz
EN50067 compliant	Yes
Accurate Clock Time (CT) Sync with Internet Connection	No
Remote TA actuation for Traffic Announcements	No
GPS module for automatic synchronization of the built-in clock	No
Fully independent RDS decoder for self-monitoring purposes	No
Firmware can be upgraded in the field	No
Front-panel LCD displays all programmed data	No
Data may be entered on-site with Front-panel Buttons	No
Operating Temperature	-15°C ÷ 55°C

RDS Features	
Group supported	0A, 2A
Group Sequence	Fixed
PS	1
PI	1
PTY	RDS/RBDS
AF Method A	7
AF Method B	No
RT	Yes, 1 message
RT rate adjustment	Yes
RT+ for songs and content tagging	No
TP	Yes
TA Control	Software
PTYN	No
EON	No
CT	Yes
TMC, EWS, IH, TDC	No
Free Format Groups (FFG)	No
Open Data Application (ODA)	No
64-character Dynamic PS shown on all RDS/RBDS Radios	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

Communication	
Communication Interfaces	USB
Connection with Automation Software	No
Network Connectivity	No
Scheduler	No
Configuration	Software
Password Protection	No
ASCII Protocol	Yes
UDP, TCP, HTTP, SNTP	No
Alert notifications on user-defined events via SNMP or E-mails	No
Embedded SNMP agent permitting active management tasks	No
Custom HTML formatted E-mail templates with dynamic variables	No
Supported Network Protocols:	No
UECP Protocol	No
PI <=> CALL Calculator	Yes
Remote Display	No

Operating conditions	
Temperature	-15°C to 55°C
Humidity	< 95%, non-condensing
Altitude	0 to 5000m above sea level

Power	
Voltage	Internal 100 - 240V; 50 - 60Hz
Power Consumption	5VA
Connector	IEC320, Fused and EMI-suppressed

Size and Weight	
Dimensions (W;H;D)	485 x 44 x 130 mm
Shipping Weight	540 x 115 x 300 mm / 2.050 kg

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