

# SmartGen Micro

### BASIC RDS/RBDS ENCODER

SmartGen "Micro" Encoder is the quick and inexpensive way to have an RDS/RBDS presence. The SmartGem "Micro" 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 reinstalled at the transmitter site. Though it is not capable of "dynamic" messaging with song titles, SmartGen "Micro" 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
- Robust Aluminum 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	n 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 purp	oses 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	

Communication	
Communication Interfaces	USB
Connection with Automation Software	No
Network Connectivity	No
Scheduler	No
Configuration Soft	tware
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

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	es, 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 Rac	dios 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

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

Power		
Voltage	External, 12V / 0.5A	
Power Consumption	5VA	
Connector	Power Jack 5.5mm	

Size and Weight		
Dimensions (W;H;D)	120 x 31 x 103 mm	
Shipping Weight	230 x 54 x 172 mm / 0.620 kg	
HS Code	8527212000	



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

