RDS PRO-1

Fully-featured RDS / RBDS Encoding:

FLEXIBLE, PROFESSIONAL AND COST-EFFECTIVE

BENEFITS:
- VERY cost effective
- Making life easier for broadcast professionals: quick and easy hardware integration
- Save time with intuitive, well-developed programming software
- Don't miss out: feature set includes every RDS function most stations will need

APPLICATIONS:
- RDS / RBDS encoding for stations of all sizes (includes EON)
- Network Radio
- Local Commercial Radio
- Community Radio
- RSLs

FEATURES:
- A properly designed and implemented RDS solution for FM broadcasters
- Switchable MPX (Composite) loop-through mode
- Maintains programme reliability in loop mode – automatic MPX 'pass-through' relays
- RS-232 & USB control based on simple ASCII commands
- Powerful Windows based configuration utility for easy initial setup
- All user adjustments accessible from front/rear panel - no need to take the lid off
- Addressing - independent or common control of up to 255 units in a network
- Advanced weekly scheduling
- Define up to 99 different messages or link to an automation system
- Internal real-time clock with battery backup for correctly inserted clock-time facility
- External contact closure TA switch
- No special 19 kHz input needed - pilot tone recovered from the MPX signal

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SPECIFICATIONS

RDS Data Groups supported:

PI	Program Identification	M/S	Music/Speech
PS	Program Service	PIN	Program-Item Number
PTY	Program Type	ECC	Extended Country Code
TP	Traffic Program	RT	Radio-text
AF	Alternative Frequencies	TDC	Transparent Data Channels
TA	Traffic Announcement	IH	In House Applications
PTYN	Program Type Name	ODA	Open Data Applications
DI	Decoder Identification	CT	Clock-Time and Date
EON	Enhanced Other Networks information		

Output RDS signal amplitude:
Adjustable 0-1.4 V p-p

RDS signal bandwidth:
+/- 2.4 kHz (50 dBc)

RDS spurious suppression:
>90 dB

RDS harmonics suppression:
>80 dB

MPX loop-through voltage gain:
1.00 (guaranteed from 2 Hz to 100 kHz)

Clock reference:
Pilot tone or internal generator

19 kHz pilot PLL lock bandwidth:
software switchable +/- 5 Hz or +/- 2 Hz

Pilot tone level:
min. 110 mV p-p

Phase shift adjust:
0-180 degrees in 9.5 degrees steps

Signal connectors:
Unbalanced, BNC

Data connector:
RS-232 (DTE, 9 pins), bidirectional

Noise protection:
Threefold level sampling

Com. speed:
Software switchable 1200-9600 kbps

Com. mode:
8 data bits, no parity, 1 stop bit

UECP protocol support:
N/A

Power:
100 – 230V AC / 7.5 Watts

Dimensions & weight:
1-RU: 44 x 482 x 290mm deep / 1.75" x 19" x 11.25" deep. Weight: 1.8kg / 4lbs

Computer Control:
All parameters can be accessed and modified under PC control (GUI software included). USB (front panel, plus RS-232 (rear panel). ASCII text-based command format

Warranty:
3 year return-to-base warranty

Defining Specification:
CENELEC EN50067

Approvals:
CE (EMC & LVD), RoHS