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

Latest firmware Now supports UECP – RT+ and TMC

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 or basic UECP implementation
- 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 in Stand-Alone and PC-Dependent modes
- 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
- Four modes of Dynamic / 'Scrolling' PS (where legal)

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SPECIFICATIONS

RDS Data Groups supported:

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

Output RDS signal amplitude:
Adjustable <25mV to >1.4 V pk-pk

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. <50 mV pk-pk

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

Signal connectors:
Unbalanced, BNC, 50-Ohm

Data connector:
RS-232 (9 pin f), bidirectional

Noise protection:
Threefold level sampling

Com. speed:
Software switchable 1200-19,200 kbps

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

UECP protocol support:
Basic implementation for TMC and RT+

Power:
100 – 240V AC / 7.5 Watts. *(Acceptable range 88 to 264V AC)*

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

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