



# 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	M/S	Music/Speech
PS	Program Service	PIN	Program-Item Number
PTY	Program Type	ECC	Extended Country Code
TP	Traffic Program	RT / RT+	RadioText including Tagging
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	TMC	Traffic Message Channel

<p><b>Output RDS signal amplitude:</b> Adjustable &lt;25mV to &gt;1.4 V pk-pk</p> <p><b>RDS signal bandwidth:</b> +/- 2.4 kHz (-50 dBc)</p> <p><b>RDS spurious suppression:</b> &gt;90 dB</p> <p><b>RDS harmonics suppression:</b> &gt;80 dB</p> <p><b>MPX loop-through voltage gain:</b> 1.00 (guaranteed from 2 Hz to 100 kHz)</p>	<p><b>Clock reference:</b> Pilot tone or internal generator</p> <p><b>19 kHz pilot PLL lock bandwidth:</b> software switchable +/- 5 Hz or +/- 2 Hz</p> <p><b>Pilot tone level:</b> min. &lt;50 mV pk-pk</p> <p><b>Phase shift adjust:</b> 0-180 degrees in 9.5 degrees steps</p> <p><b>Signal connectors:</b> Unbalanced, BNC, 50-Ohm</p>	<p><b>Data connector:</b> RS-232 (9 pin f), bidirectional</p> <p><b>Noise protection:</b> Threefold level sampling</p> <p><b>Com. speed:</b> Software switchable 1200-19,200 kbps</p> <p><b>Com. mode:</b> 8 data bits, no parity, 1 stop bit</p> <p><b>UECP protocol support:</b> Basic implementation for TMC and RT+</p>
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### 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



PRODUCT INFORMATION Issue 1.2 - E&OE - SUBJECT TO CHANGE WITHOUT NOTICE



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