



# RDS PRO-4



## Fully-featured RDS / RBDS Encoding with IP control and LCD: 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 ever need
- IP remote control
- LCD enables quick onsite validation of transmitted data without using a PC

Latest  
firmware  
Now supports  
UECP - RT+  
and TMC

### APPLICATIONS:

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

### FEATURES:

- A properly designed and implemented RDS solution for all FM broadcasters
- Switchable MPX (Composite) loop-through mode
- Maintains programme reliability in loop mode - automatic MPX 'pass-through' relays
- IP, 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)
- LCD display
- Integral IP Ethernet port



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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     |

|   |   |   |
|---|---|---|
| <b>Output RDS signal amplitude:</b><br>Adjustable <25mV to >1.4 V pk-pk         | <b>Clock reference:</b><br>Pilot tone or internal generator                         | <b>Data connector:</b><br>RJ45, RS-232 (9 pin f), bidirectional       |
| <b>RDS signal bandwidth:</b><br>+/- 2.4 kHz (-50 dBc)                           | <b>19 kHz pilot PLL lock bandwidth:</b><br>software switchable +/- 5 Hz or +/- 2 Hz | <b>Noise protection:</b><br>Threefold level sampling                  |
| <b>RDS spurious suppression:</b><br>>90 dB                                      | <b>Pilot tone level:</b><br>min. <50 mV pk-pk                                       | <b>Com. speed:</b><br>Software switchable 1200-19,200 kbps            |
| <b>RDS harmonics suppression:</b><br>>80 dB                                     | <b>Phase shift adjust:</b><br>0-180 degrees in 9.5 degrees steps                    | <b>Com. mode:</b><br>8 data bits, no parity, 1 stop bit               |
| <b>MPX loop-through voltage gain:</b><br>1.00 (guaranteed from 2 Hz to 100 kHz) | <b>Signal connectors:</b><br>Unbalanced, BNC, 50-Ohm                                | <b>UECP protocol support:</b><br>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 10/100 base-T Ethernet and RS-232 (rear panel). ASCII text-based command format.

## Warranty:

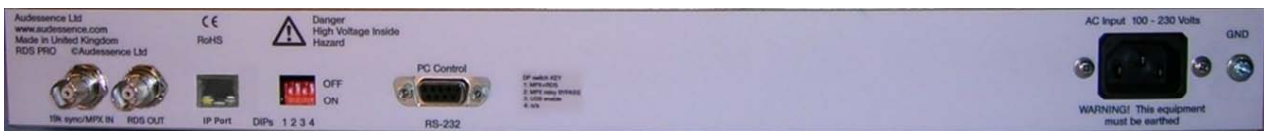
3 year return-to-base warranty

## Defining Specification:

CENELEC EN50067

## Approvals:

CE (EMC & LVD), RoHS



PRODUCT INFORMATION Issue 1.00 - E&OE - SUBJECT TO CHANGE WITHOUT NOTICE



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