INTERNATIONAL DATACASTING

RDY RDS/RBDS Generator

Features

- 32 bit Digital Signal Processing technology
- UECP V 7.05 compliant
- Double inputs and outputs for UECP, MPX , 19 kHz and 57 kHz
- Extensive supervisor function for system performance with logging capabilities
- 4 user definable inputs and 7 user definable outputs
- Front panel control and remote controllable over TCP/IP or RS-232
- Controllable over RDS database and management software
- Supports RDS and RBDS

With uncompromised digital processing of RDS data, the RDY RDS/RBDS Generator offers a state of the art digital broadcast quality RDS encoder according to the EN50067/62106 standard.

The RDS databank and management software completes the RDY system offering an advanced but easy to maintain RDS network. The RDS databank and management software can be adapted to the broadcasters need.

This combination of high-end technology and advanced functionality makes the RDY RDS Generator the perfect companion for professional broadcasters.

All of IDC's long and extensive experience in broadcast and cable headend networks was utilized for the development of the RDY and resulted in a full digital RDS encoder based on the latest 32 bit Digital Signal Processing (DSP) technology.

The RDY RDS Generator has a full implementation of the UECP Version 7.05 protocol and is accessible over one of the serial RS-232 ports on the rear side, a serial RS-232 port on the front side or over an optional IP port. It also offers front side control by keypad and display. The onboard memory preserves the RDS settings even after a signal and/or power loss.

Database and Management

The optional available RDS databank and management software offers full remote control of the RDY RDS Generator over an UECP and/or IP connection. The advanced database software is capable of managing all RDS parameters like EON, MEC access rights, TDC, ODA Buffers, Configuration and many more. As every broadcasters has it's specific demands the RDS database and management software can be offered tailor made.

TECHNICAL SPECIFICATIONS—RDY RDS Generator

MODEL	DESCRIPTION
Base	Digital RDS Generator for Static and Dynamic RDS
SOFTWARE OPTIONS	
Load and Control Support for RDY - Software License	

RDS ENCODER	
Input	19 kHz or MPX, BNC
RDS Data Input	UECP format
19 kHz Input Impedance	High “Z” or 600 Ohm, BNC
RDS Deviation	0.1 to 7.5 kHz in 0.1 kHz steps
RDS Carrier Stability	57 kHz, better than 50 ppm
RDS Data Spectrum	Digital 50% cosines roll-off filter, -70 dB 19 kHz input range: -30 dB to 10 dB
19 kHz Fase Tracking	+/- 4 Hz
Communication Input	UECP V7.05 supported
RDS Protocol	According to EN50067/62106
57 kHz/MPX Output	-57.5 dBr to -20 dBr steps
57 kHz/MPX Output Impedance	BNC, 20 Ohm
Distortion	> 74 dB (< 0.02%)
S/N	> 80 dB (CCIR Rec. 468-4 unw.)
Hum Modulation	> 80 dB
DATA, ALARM AND ANCILLARY PORTS	
Remote Communication Ports	Ethernet TCP/IP
Output Ports	Sub-D25 connector male
Input Ports	Sub-D9 connector male
UECP Communication Port	RS-232 / 1K2 - 38K4 Baud
Port Type	DTE

I/O PORT	
Inputs	4 - Opto couplers
Outputs	7 - Relays
IP PORT	
Protocol	TCP/IP
Port Type	Ethernet RJ45, 100/100 Mb/s
POWER REQUIREMENTS	
Supply Voltage	100 to 240 VAC, 50/60 Hz
Power Consumption	45 Watt maximum
Power Connection	IEC panel-mount plug filter with fuse 2.5 AT
PHYSICAL PARAMETERS	
Chassis	1 RU rackmount
Dimensions (H, W, D)	4.5 cm x 48 cm x 30 cm (1.75” x 19” x 11.8”)
Weight	5 kg (11 lbs.)
ENVIRONMENTAL CONDITIONS	
Operating Temperature	5° to 45° C (41° to 113° F)
Storage Temperature	-5° to 65° C (23 to 149° F)
Safety and Emissions	In accordance with CE regulations

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