

PTX-DDS SERIES

COMPACT DDS STEREO TRANSMITTERS

MODEL **PTX30DDS**



ORDERING INFORMATION	
Model	Description
PTX30DDS	30W Compact DDS Stereo Transmitter.
OPTION	
/SFN-DDS	Supports SFN applications.
/TLW-DDS-E	WEB & SNMP telemetry extension card.
/TLW-DDS-AOIP	Audio over IP, WEB, SNMP telemetry extension card.
/08-DIG-DDS	Telemetry via parallel interface.
/09-DIG-DDS	Digital telemetry via SCM6 interface for 6+1 Stations.
/10MHZ-PTX	External 10MHZ cable.



PTX30DDS

30W Compact DDS Stereo Transmitter.

FEATURES

PTXDDS is the ultimate digital evolution of the most sold professional FM transmitter world-wide!

AUDIO PERFORMANCE: clear and transparent sound comparable to CD sound quality made possible thanks to a noise/signal ratio as high as 90dB, low distortion and stereo separation as high as 70dB!

PRIMARY APPLICATION: optimal for use as an independent exciter. Adjustable power output from 0 to 100%.

AUDIO FEATURE: incorporated a board with DSP for isofrequency applications (SFN) and a limiter on audio (ITU) to ensure controlled emissions in the spectrum, created COMPLETELY DIGITAL and free from mechanical disturbances.

AUDIO RESCUER: integrated, the established timing and priority of all audio inputs (Analog-Digital-MPX) are programmable.

INTERFACE CONTROL: totally microprocessor-controlled, easily programmed from menu through a large LCD and useful optical ENCODER.

INPUT/OUTPUT INTERFACE: built-in high-performance stereo coder, L&R analogue audio inputs, Mono inputs, MPX composite signal and auxiliary inputs for SCA / RDS signals. S/PDIF, TOSLINK, AES/EBU digital audio inputs are available as standard.

REMOTE CONTROL: built-in telemetry system via GSM modem, battery and battery charger or via WEB or via SNMP (option).

RELIABILITY/CONTINUITY: business continuity is guaranteed by an incredible range and variety of controls, such as Fold-Back control for effective VSRW (Voltage Standing Wave Ratio) protection and IAMLC (Intelligent Automatic Modulation Level Control) to keep modulation level steady.

RDS APPLICATION: built-in digital RDS encoder with UECP standard functions.

EASE OF MAINTENANCE: advanced module engineering ensures extreme of access and simple maintenance.

REGULATORY COMPLIANCE: state-of-the-art technology in full compliance with EC, FCC and CCIR standards.



PTX30DDS

Parameters	U.M.	Value	Notes
GENERALS			
Frequency range	MHz	87,5 ÷ 108	
Rated output power	W	30	Continuously adjustable from 10 to 100%
Modulation type		Direct Digital Synthesis	
Operational mode		Mono, Stereo, Multiplex	
Working temperature	°C	-5 to +50	
Working humidity	%	95	Without condensing
Working altitude	mt	Up to 3000 *	* With adequate air evacuation system in site
Frequency setting	kHz	From software, with 1, 10, 100, 1000	Steps
Frequency stability	Temperature range from -5°C to 50°C	ppm	±1
Modulation capability	Referred @ 0dBu for 75kHz	kHz	150
Pre-emphasis		µS	0, 50 (CCIR), 75 (FCC)
POWER REQUIREMENTS			
AC Power input	AC Supply Voltage	VAC	115 / 230 ±15%
	AC Apparent Power Consumption	VA	280
	Active Power Consumption	W	160
	Power Factor		0,57
	Overall Efficiency	%	Typical 18
Connector			VDE IEC Standard
MECHANICAL DIMENSIONS			
Physical dimensions	Front panel width	mm /inch	483 / 19
	Front panel height	mm /inch	88 / 3 1/2
	Overall depth	mm	400
	Chassis depth	mm	389
Weight		kg	About 10
Cooling			Forced, with internal fan
Acoustic noise		dBA	< 56
AUDIO INPUTS			
Left / Mono	Connector		XLR F
	Type		Balanced
	Impedance	Ohm	10 k or 600
	Input Level / Adjust	dBu	-12,5 to +12,5
			0,1 dB step adjustable
Right	Connector		XLR F
	Type		Balanced
	Impedance	Ohm	10 k or 600
	Input Level	dBu	-12,5 to +12,5
			0,1 dB step adjustable
MPX	Connector		BNC
	Type		Unbalanced
	Impedance	Ohm	10 k
	Input Level / Adjust	dBu	-12,5 to +12,5
			0,1 dB step adjustable
SCA/RDS	Connector		2 x BNC
	Type		Unbalanced
	Impedance	Ohm	10 k
	Subcarrier Level @ 0 dBu	dB	-17 to -40
			0,5 dB step adjustable
AES/EBU (optional)	Connector		XLR F
	Type		Balanced
	Impedance	Ohm	110
TOS/Link (optional)	Connector		TOS-LINK
	Type		Optical
OUTPUTS			
RF Output	Connector		N type
	Impedance	Ohm	50
RF Monitor	Connector		BNC
	Impedance	Ohm	50
	Output Level	dBm	Approx. -30
Pilot output	Connector		BNC
	Load Impedance	Ohm	>600
	Output Level	Vpp	2,2
			Sinusoidal
FUSES			
On mains			1 External fuse F 6,3 AT - 5x20 mm
On services			X
On PA supply			X
On Driver supply			X

All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice. These are general specifications. They show typical values and are subject to change without notice.



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