



R V R PTRL-LCD Radio Links System User Manual

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**RADIO LINKS SYSTEM
PTRL – RXRL**

Line of Radio Links covering the frequency bands from 200 ÷ 400 MHz and from 800 ÷ 960 MHz with an adjustable power from 0 to 20W and various optional accessories.

MODELS

PTRL-LCD RXRL-LCD

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PTRL-LCD Radio Links System



- STL robust and reliable, simple to use.
- Standard working frequency bands that include, depending on the model, the VHF-UHF (200 ÷ 400, 800 ÷ 960 MHz) bands.
- Optional stereo coder and decoder.
- Adjustable output power 2 ÷ 20W on PTRL-LCD transmission.
- Agile frequency on 20MHz, selectable a step of 5kHz.
- Excellent transmission quality with low distortion and intermodulation.
- Full range power supply 80-260 VAC.
- Connector for external 24 VDC backup.
- APC automatic power control.
- Reduced maintenance.

ORDERING INFORMATION

Model	Description
PTRL-LCD	20W Radio Link TX 940÷960 MHz in step of 20 MHz factory limited. Please specify the operating frequency at the order.
RXRL-LCD	Radio Link RX 940÷960 MHz in step of 20 MHz factory limited. Please specify the operating frequency at the order.
/S-PTRLLCD	Stereo coder card.
/05-RXRLLCD	Stereo decoder card.

PTRL-LCD

20W Radio Link TX 940÷960 MHz in step of 20 MHz factory limited.



<https://www.rvr.it/it/products/radio-links/radio-links-system/lcd-series/ptrl-lcd-rxrl-lcd-pv8lht4/>



RXRL-LCD

Radio Link RX 940÷960 MHz in step of 20 MHz factory limited.



<https://www.rvr.it/it/products/radio-links/radio-links-system/lcd-series/rxrl-lcd/>



PTRL-LCD

Parameters	U. M.	Value	Notes
GENERALS			
Frequency range with is 20MHz	Work band MHz	940 ÷ 960	
Rated output power	W	20	Continuously adjustable from 10 to 100 %
Modulation type		Direct carrier frequency	
Operational mode		Mono, Multiplex	
Ambient working temperature	°C	-10 to +50	Without condensing
Frequency setting	kHz	10	Steps

Frequency stability Temperature range from -10°C to 50°C		ppm	±1	
Modulation capability Referred @ 0dBu for 75kHz		kHz	130	Meets or exceeds all FCC and CCIR rules
Pre-emphasis		µS	0, 50 (CCIR), 75 (FCC)	Selectable
Spurious & harmonic suppression		dBc	<73	
Asynchronous AM S/N ratio Referred to 100% AM, with no de-emphasis		dB	≥60	
Synchronous AM S/N ratio Referred to 100% AM, FM deviation 75 kHz		dB	≥50	
POWER REQUIREMENTS by 400Hz sine, without de-emphasis				
AC Power input	AC Supply Voltage	VAC	80 ÷ 260	Full range
	AC Apparent Power Consumption	VA	120	
	Active Power Consumption	W	70	
	Power Factor		0,5	
	Overall Efficiency	%	Typical 50	
	Connector		VDE IEC Standard	
DC Power input	DC Supply Voltage	VDC	24	
	DC Current	ADC	5	
MECHANICAL DIMENSIONS				
Physical dimensions	Front panel width	mm / inch	483 / 19	EIA rack
	Front panel height	mm / inch	88 / 3 1/2	2HE
	Overall depth	mm	394	

	Chassis depth	mm	372	
Weight		kg	About 7	
Cooling			Forced, with internal fan	
Acoustic noise		dB A	< 58	
AUDIO INPUTS				
Left / Mono	Connector		XLR F	
	Type		Balanced	
	Impedance	Ohm	10 k or 600	
	Input Level /Adjust	dBu	-13 to +13	Continuously adjustable
Right	Connector		XLR F	
	Type		Balanced	
	Impedance	Ohm	10 k or 600	
	Input Level	dBu	-13 to +13	Continuously adjustable
MPX	Connector			
	Type		Unbalanced	
	Impedance	Ohm	10 k or 50	
	Input Level / Adjust	dBu	-13 to +13	Continuously adjustable
SCA/RDS	Connector		2 x BNC	
	Type		Unbalanced	
	Impedance	Ohm	10 k	
	Input Level / Adjust	dBu	-8 to +13	For 7,5 KHz FM, adjustable
OUTPUTS				
	Connector		N type	

RF Output	Impedance	Oh m	50	
RF Monitor	Connector		BNC	
	Impedance	Oh m	50	
	Output Level	dB	Approx. -30	
Pilot output	Connector		X	
	Load Impedance	Oh m	X	
Output Level		Vpp	X	Sinusoidal

On mains		1 External fuse F 3 ,15 T – 5×20 mm	
On services		X	
On PA Supply		X	
On driver supply		X	

RXRL-LCD

Parameters	U. M.	Value	Notes
GENERALS			
Frequency range Work band with is 20MHz	MH z	940 ÷ 960	
Sensitivity RF @ 25dB S/N Mono	W	-85	Continuously adjustable from 10 to 100 %
Intermediate frequency		70 , 10,7 , 0,35	
Operational mode		Mono, Multiplex	
Ambient working temperature	°C	-10 to +50	Without condensing
Frequency setting	kHz	10	Steps
Frequency stability Temperat ure range from -10°C to 50°C	pp m	±1	

De-emphasis		μS	0 , 50 , 75	Meets or exceeds all FCC and CCIR rules
POWER REQUIREMENTS				
AC Power input	AC Supply Voltage	VAC	80 ÷ 260	Full range
	AC Apparent Power Consumption	VA	25	
	Active Power Consumption	W	20	
	Power Factor		0,8	
	Overall Efficiency	%	Typical 50	
	Connector		VDE IEC Standard	
DC Power input	DC Supply Voltage	VDC	24	
	DC Current	ADC	< 2 A	
MECHANICAL DIMENSIONS				
Physical dimensions	Front panel width	mm / inch	483 / 19	EIA rack
	Front panel height	mm / inch	88 / 3 1/2	2HE
	Overall depth	mm	394	
	Chassis depth	mm	372	
Weight		kg	About 5	
Cooling			Convection cooling	
Acoustic noise		dB A	X	
AUDIO INPUTS				
RF Input	Connector		N type	
	Impedance	Ohm	50	
OUTPUTS				

Left / Mono	Connector		XLR F	
	Type		Balanced	
	Impedance	Oh m	100	
	Output Level /Adjust @ 75KHz dev	dBu	-10 to +14	Continuosly adjustable
Right	Connector		XLR F	
	Type		Balanced	
	Impedance	Oh m	100	
	Output Level /Adjust @ 75KHz devl	dBu	-10 to +14	Continuosly adjustable
MPX	Connector			
	Type		Unbalanced	
	Impedance	Oh m	100	
	Output Level /Adjust @ 75KHz dev	dBu	-20 to +13	For 75 KHz FM, adjustable
SCA	Connector		2 x BNC	
	Type		Unbalanced	
	Impedance	Oh m	100	
	Output Level /Adjust @ 75KHz dev	dB	-20 to +7	Value to check for the 7.5KHz deviation
FUSES				
On mains			1 External fuse F 3 ,15 T – 5×20 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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Member of CISO Federation



CERTIFIED MANAGEMENT SYSTEM

ISO 9001

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Documents / Resources

	R V R PTRL-LCD Radio Links System [pdf] User Manual PTRL-LCD Radio Links System, PTRL-LCD, Radio Links System, Links System
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References

-  [R.V.R. Elettronica - Broadcast Systems](#)