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Model No. RPC-PESA-SVS

PESA

To

Sierra Video Systems (SVS)

USER MANUAL

1. REVISION HISTORY

120403 Rev. 2.3 Company header information revised.

Added DNF Controls Limited Warranty.

2. DESCRIPTION

Maintain control of your routers with DNF's Router Protocol Converter (RPC) — the missing link for control integration of routers from different manufacturers. The RPC lets routers from different manufacturers communicate with each other. Instead of using a different control system for each router in your facility, consolidate control under your main router. The other routers "look like" levels on your main system.

- □ Allows PESA Router to control the Sierra Video Systems (SVS) Router as a level on the PESA
- □ The SVS looks like one or more levels on the PESA
- Fast and Easy to set up and use
- Map SVS router levels to desired levels on the PESA

DEFINITIONS:

Words surrounded by brackets, for example, [ENTER], are keys on the RPC.

[XXX] + [XXX] means hold the two keys down simultaneously.

XXX= Key name.

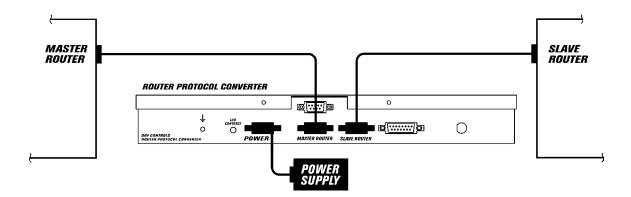
3. INSTALLATION

1. Connect the MASTER ROUTER 422 connector on the back of the RPC to the ROM3/PRC connector on the PESA System Controller.

Communication format: 38400, None, 8, 1.

Create a component for the RPC using Win3500 software.

- 2. Connect the SLAVE ROUTER RS232 connector on the back of the RPC to the connector on the Sierra Video Router labeled "RS232/RS422" (See wiring diagram in SPECIFICATION section.)
 Communication format: 9600, N, 8, 1.
- 3. Connect power.



Installation is complete.

4. SIERRA VIDEO LEVEL MAPPING TO PESA

The PESA router supports up to 61 levels. Use this function to map the SVS levels to the available PESA levels.

- 1. Press [SHIFT] + [LEVEL] on the RPC.
- 2. The display shows: "SVS:aa x bb L:c", where: aa- number of outputs on the SVS router, bb- number of inputs on the SVS routers, c- number of levels of SVS router.

The second line of the display prompts: "ENTER- map levels"

- 3. Press [ENTER] to map levels.
- 4. The display shows "SVS=xx, PESA =yy", where: xx- level on the Sierra Video Systems router, yy- corresponding level on the PESA router.
- 5. Press [←] to walk through all the existing SVS levels and view PESA levels associated to them.
- 6. Press [→] to change the PESA level mapping for the selected SVS level, or turn it off.
- 7. Press [ESC] twice when done.

Setup is complete. Now, the Sierra Video Systems router behaves as part of the PESA router.

5. RPC STATUS DISPLAY

The RPC Display shows the communication status between the PESA and the RPC, as well as the communication status between the RPC and the SVS router

If communications with the PESA is established, then the first line of the display shows "PESA: OK".

Otherwise, it shows "PESA: No Comm".

If communication with the SVS is established, the second line of the display shows "SVS: OK".

Otherwise, it shows "SVS: No Comm".

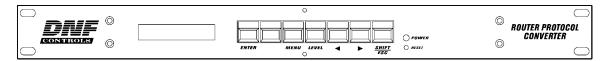
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6. TEST COMMUNICATION BETWEEN SVS AND RPC

- 1. Press [**SHIFT**] + [**MENU**].
- 2. Press \rightarrow or \leftarrow until the display shows SVS TEST.
- 3. Press [ENTER].
- 4. The First line of the display says "SVS TEST".
- 5. If communication is established between the RPC and the SVS, the second line of the display shows version information for the Sierra Video Router. If there is an error, the display says "Comm. Error".
- 6. Press [**ESC**] to exit test mode.

7. SPECIFICATIONS

Front Panel



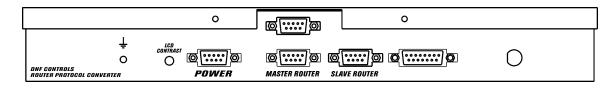
1 LED POWER

6 switches Enter, Level, Menu, <, >, Shift/ESC

Reset Switch Recessed momentary switch

Display 2-Line LCD, back-lit with adjustable contrast

Rear Panel



Connectors: Master Router, Slave Router (DB9F)

POWER (DB9M)

Size: 19" x 5" x 1-3/4" (Rackmount)

Weight: 7 lbs.

Power: 5 volt D.C., 1500 ma. 90-265 VAC

50/60 Hz converter supplied

POWER SUPPLY CONNECTOR 9-Pin D-type, male (DB9M)

Pin#	1	+5Vdc	Pin#	6	+5Vdc
	2	+5Vdc		7	Ground
	3	Ground		8	Ground
	4	nc		9	Ground
	5	nc			

MASTER ROUTER RS422 SERIAL CONNECTOR

(Device	e config	guration) 9-Pin I	O-type, female (I	OB9F)	
Pin#	1	Frame Ground	Pin# 6	5	Common
	2	Transmit A 🛨	7	7 ′	Transmit B →
	3	Receive B 🗲	8	3	Receive A 🗲
	4	Common	g)]	Frame Ground
	5	Spare			

SLAVE ROUTER RS232 SERIAL CONNECTOR

9-Pin D-type, female (DB9F)

Pin#	1	No Connection	Pin#	6	No Connection
	2	RD (Receive Data)		7	No Connection
	3	TD (Transmit Data)		8	No Connection
	4	No Connection		9	No Connection
	5	Ground			

PESA to RPC Wiring Interface

PESA (RS422 Controller) RPC (RS422 Device)

Pin#		Pin#	
1	Frame Ground	1	Frame Ground
2	Receive A ←	2	Transmit A ->
3	Transmit B →	3	Receive B ←
4	Common	4	Common
5	Spare	5	Spare
6	Common	6	Common
7	Receive B ←	7	Transmit B →
8	Transmit A →	8	Receive A ←
9	Frame Ground	9	Frame Ground

RPC to SVS Wiring Interface

RPC (RS232) **SVS** (RS232)

Pin#		Pin#	
1	No Connection		
2	Receive ←	2	Transmit -
3	Transmit →	8	Receive
4	No Connection		
5	Ground	1	Ground
6	No Connection		
7	No Connection		
8	No Connection		
9	No Connection		

8. DNF CONTROLS LIMITED WARRANTY

DNF Controls warrants its product to be free from defects in material and workmanship for a period of one (1) year from the date of sale to the original purchaser from DNF Controls.

In order to enforce the rights under this warranty, the customer must first contact DNF's Customer Support Department to afford the opportunity of identifying and fixing the problem without sending the unit in for repair. If DNF's Customer Support Department cannot fix the problem, the customer will be issued a Returned Merchandise Authorization number (RMA). The customer will then ship the defective product prepaid to DNF Controls with the RMA number clearly indicated on the customer's shipping document. The merchandise is to be shipped to:

DNF Controls 12843 Foothill Blvd., Suite D Sylmar, CA 91342 USA

Failure to obtain a proper RMA number prior to returning the product may result in the return not being accepted, or in a charge for the required repair.

DNF Controls, at its option, will repair or replace the defective unit. DNF Controls will return the unit prepaid to the customer. The method of shipment is at the discretion of DNF Controls, principally UPS Ground for shipments within the United States of America. Shipments to international customers will be sent via air. Should a customer require the product to be returned in a more expeditious manner, the return shipment will be billed to their freight account.

This warranty will be considered null and void if accident, misuse, abuse, improper line voltage, fire, water, lightning or other acts of God damaged the product. All repair parts are to be supplied by DNF Controls, either directly or through its authorized dealer network. Similarly, any repair work not performed by either DNF Controls or its authorized dealer may void the warranty.

After the warranty period has expired, DNF Controls offers repair services at prices listed in the DNF Controls Price List. DNF Controls reserves the right to refuse repair of any unit outside the warranty period that is deemed non-repairable.

DNF Controls shall not be liable for direct, indirect, incidental, consequential or other types of damage resulting from the use of the product.

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