

Spid Pant 8 controller and Ant 8 antennas switcher

Instruction manual



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Introduction

The Pant8 controller is destined for controlling the 8 inputs antennas switcher. Can be used for controlling the antenna switcher produced by SPID, or any other, which is equipped with relays supplied from 12 V DC with common ground and active plus.

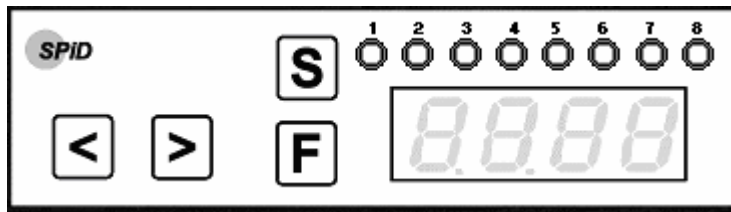
Shipping Contents

Pant8 controller	1
Parallel cable	1
CD-ROM (software tools and SpidLog program).....	1
Mouse controller (optional).....	1





Technical Data

Input voltage (typical)	12 – 24 Volt DC
Input current	0.5 Amp
Fuse	2 A GMA

Control panel



Buttons

-  -Left (Decrease)
-  -Right (Increase)
-  -Setup
-  - Function mode

7 segments 4-digit display

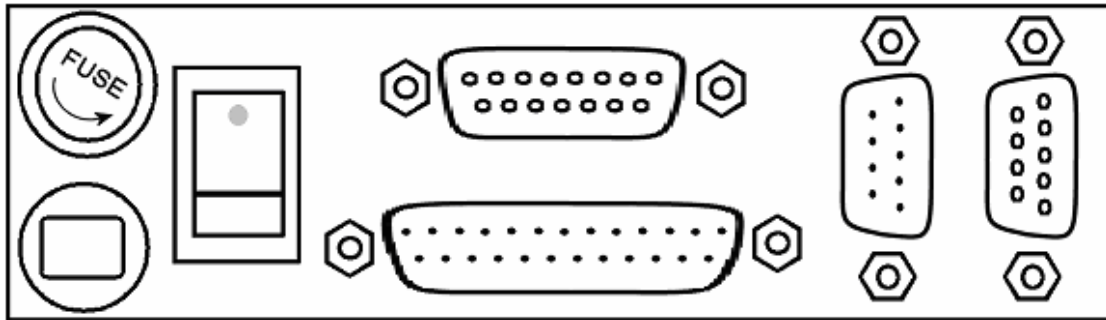


Multifunction display

7 LED indicator

 Indicator of active antenna

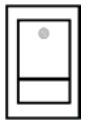
Rear panel



- Fuse



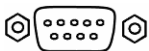
- Power cord



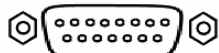
- Power Switch



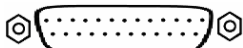
DB – 9 connector (male) – mouse connection



DB – 9 connector (female) – not used



DB – 15 connector – for Ant8 antennas switcher
(pin 1-8 out to Ant8 , 9-15 ground)



DB – 25 connector – PC (LPT port)

Controller operation

The Pant8 controller has multiple modes of operation. You will need to become familiar with these modes to be able to make full use of your rotator.

F Function Mode

The **F** button steps through the function menus. The leftmost character on the display indicates the function mode you are currently in.

8880 - Normal operation Mode

A880 - Auto mode

8880 **Normal Operations Mode**

In Normal Operations Mode, the **<** and **>** buttons cause manual modification of active antenna input.

Active input will be signaled by one of the LED (assigned to output 1-8) on the front panel and band, which is assigned to output.

In this mode you can use mouse. The function buttons (1-8) are assigned to antennas outputs (1-8). If less than 8 antennas is installed, buttons assigned to non-active antennas are not active.

Pressing **S** while in normal operations mode will take you to Setup mode.

A880 **Auto mode**

In Auto Mode, the controller will respond to commands from control software running on an attached computer. The **<** and **>** buttons are not active, also mouse can't be used.

Setup mode

The **S** button steps through the Setup menu.
Each **S** button pushing steps next MENU option.
The display cycles through each of the Setup menu items.

8888

Programmable inputs – 1 of 8 inputs may be active.

8888

Programmable number of connected antennas (from 1 to 8)

8888

Pre-setting of control by LPT (from OP 1 ... OP 3)

8888

In this mode you can program controller from PC computer.

8888 Selection mode

This mode is fixed (not changeable)
This mode informs you about that the only one input – from 1 to max L (depending on value defined in **L** option) is selected for control.

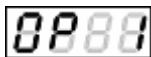
8888

Programmable number of connected antennas (**L** = from 1 to 8)

This option allows you to define number of antennas attached to switcher. The **L** value can be defined between 1 (one antenna) to 8 (8 antennas). To define value **<** and **>** buttons are used.

Assigning antennas to BAND

After defining the antennas number, you must assign band to each antenna.



Pre-setting of control by LPT (from OP 1 ... OP 3)

OP1 binary control option – at the LPT output logic state „1” is set only for the 1 of 8 outputs (LPT pins from 2 to 9).

OP2 , OP3 , OP4

BCD control option (as e.g. DXWin , CT , NA programs)

OP2 160 m – 10m

OP3 160 m – 6 m

OP4 6 m – 23 cm

Tables of output logic levels:

The following table shows for which band the lines on a printer port are active (high.) The lines correspond to the pins on a standard DB-25 connector. Bands not shown are not active.

Band	Pin 2	Pin 7	Pin 8	Pin 9
160m	x			
80m		x		
40m	x	x		
30m				
20m	x		x	
17m		x	x	
15m	x	x	x	

12m				x
10m	x			x
6m		x		x
2m	x			
1.2m		x		
70cm	x	x		
23cm	x		x	

To set this value, the ◀ and ▶ buttons must be used.

PP88 On this mode you can program controller from PC.



This mode allows you to program controller automatically (SETUP software mode).

You can use Spid.Log program (option „configuration – Antenna”), or **LPT ster** (Pant.exe) program (delivered on CD).

Set antens [X]

LPT Port:

Save

Antena count (L): [↕]

Type out

1-8 2-4

Antena #1: Antena #5:

Antena #2: Antena #6:

Antena #3: Antena #7:

Antena #4: Antena #8:


Options

Binary encoding

Decimal encoding 160m - 6m

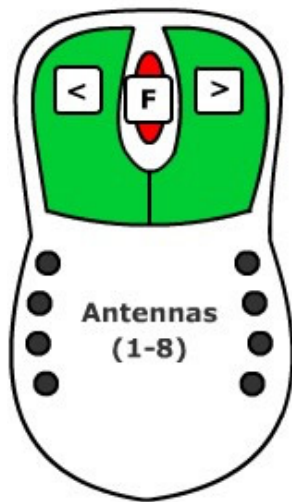
Decimal encoding 160m - 10m

Decimal encoding 6m - 0,23m




 **PP Send**

Exit

Mouse controller (optional)



The optional mouse controller allows easy desktop access to the most commonly used front panel controls. These buttons are functionally equivalent to the corresponding front panel controls.

-  -Left (Decrease)
-  -Right (Increase)
-  - Function mode



The mouse controller is a highly modified computer mouse. You cannot use a regular mouse with the Elapid rotator nor vice-versa.

In addition to the above controls, you will find 8 programmable preset buttons on the mouse.

Programmable preset buttons are only available via the optional mouse controller. Preset headings are programmed via the Setup Mode

The mouse ball serves no function; the mouse simply provides an ergonomically pleasing case in which to mount the controls.