



MOTION CONTROL



USB JOYSTICK INTERFACE



FEATURES:

- 4 input channels X, Y, Z, R
- 4 Point of View hat switch, 6 button inputs
- 6 Button inputs
- Joystick present input
- Microsoft HID class device
- RS232 port
- Mouse control mode

APPLICATIONS:

- Interfacing Industrial joysticks to PC
- Providing joystick control with Deva 004
- Converting Joystick, keypad & display signals to USB

ORDER CODE:

020

DESCRIPTION:

USB JOYSTICK INTERFACE



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The Deva 020 USB Joystick interface allows potentiometer and voltage output to be connected to the USB port of the PC. It accepts potentiometers in the range 1K to 250K and voltages from 0 to 5v. Potentiometers should be wired between 0v and the +5v provided by the unit.

This plug 'n' play device appears in Windows as a standard joystick and/or mouse device and needs no further software drivers. In joystick mode the device offers four axes, a point of view hat and six buttons. Mouse mode allows a two-axis joystick to operate the mouse pointer and supports three buttons. A special dual mode lets the user toggle between joystick and mouse control via a single button.

To detect accidental removal of the joystick device a Joystick Present input is provided which must be connected to 0v otherwise the joystick module returns center values for all inputs.

In addition to the analog inputs, the Deva 020 supports 10 digital button inputs. These inputs must be taken to 0v using a push to make switch. Typically the first four inputs are configured to act as a point of view hat switch and the other six are general purpose buttons. Alternatively, the unit can be configured to have 9 buttons at the expense of the hat switch inputs.

The Deva 020 operates with the standard HID class drivers.

The Deva 020 also incorporates an RS232 serial port which can be enabled for OEM use. This typically allows OEM specific joysticks incorporating keypads and displays to be easily interfaced to the PC. Please contact Deva for further details.

CONNECTIONS

Joystick Input - 25 way female 'D'		
Pin	Function	Notes
1	Analog X	X axis
2	Analog Y	Y axis
3	Analog Rz	Z axis
4	Analog Z	Speed - Connect to 0v for maximum speed if not used
5	+5v	
6	Joystick Present	Connect to 0v to indicate that the joystick is present
7	0v	
8	0v	
9	0v	
10	HatSwitch1	
11	HatSwitch2	
12	HatSwitch3	
13	HatSwitch4	
14	Button 1	
15	Button 2	
16	Button 3	
17	Button 4	
18	Button 5	



SPECIFICATION:

- Bus: USB 1.1 (low speed)
- Analog Channels: 4
- Analog Resolution: 8 bits
- Analog Range: 0-5v
- Digital Inputs: 4 Point of view, 6 buttons
- Sample rate: 50hz
- Weight: 10g
- Size: 90mm x 55mm

19	Button 6	
20		Do not connect
21		
22		
23	RX	Data to the PC
24	TX	Data from the PC
25	0v	

RS232 port - 9 way male 'D'		
Pin	Function	Notes
1		
2	RX	Data to the PC
3	TX	Data from the PC
4		
5	0v	
6		
7	RTS	RTS output
8	CTS	CTS input
9		

QUALITY

We aim to provide our customers with the highest quality products and customer support. Our team of experienced engineers are available to discuss your specific applications.

Our products are designed and manufactured in the UK and include a 36 month, no quibble warranty.