

# PK-232SC

Timewave

## Multimode Data Controller

Now with USB Audio, Rig Control and Single USB Computer Cable!



Timewave's customers swear by their DSP filters and PK-232 owners love the flexibility and reliability of the most popular data controller ever built. Now with the addition of a built-in sound card, rig control, computer isolation and total USB connectivity, the PK-232SC rolls it all into one! The PK-232SC brings a new level of performance to the legendary PK-232 with sharp, accurate DSP filters for all its internal data modes and dual transformer isolation for sound card data modes. Weak signals magically appear from the noise and QRM bounces off the new DSP filters for cleaner copy with fewer errors than the old analog filters.

### More Filters, Better Filters, Automatic selection

The PK-232SC brickwall filters have tighter bandwidth and steeper skirts for improved noise and QRM rejection. New PK-232 firmware (Ver. 7.2) allows a wider selection of filters than the original PK-232, so the filter can match the mode. The correct DSP filter is automatically selected when you choose an internal mode. In RTTY, Timewave's proven Twin Peak Filters pluck the mark and space tones from the noise and QRM for great copy. In PACTOR, the filter bandwidth automatically changes when the baud rate shifts in response to the error rate of the link. In Morse (CW), the operator can preset either 100 Hz or 200 Hz bandwidth. The PK-232SC is compatible with all Windows XP, Vista, and Windows 7 software terminal programs for the PK-232.

### Sound Card Interface and Rig Control

For maximum flexibility, Sound Card / TNC switching is both software and panel switch controlled. The sound card mode selection is software controlled. For example, when operating with Radio Operating Center software, changing to PSK31 from Pactor or MT63 is a simple menu click.

The single USB cable from your PC also moves your logic level Kenwood RX/TX/RTS/CTS, Yaesu CAT, and Icom CIV and USB Rig Control interface to the back panel of your PK-232SC.

## Features

- Digital Signal Processor
- 18 DSP Filters
- Twin Peak RTTY Filters
- Adaptive PACTOR filters
- Works with all sound card modes
- USB Sound Card Audio
- Rig Control for Icom, Yaesu & Kenwood transceivers
- Single USB Computer Connection
- Galvanic Computer Isolation
- SC Upgrades for all PK-232 models

**All the Proven Modes + All the Sound Card Modes** The PK-232SC supports all the new sound card modes in addition to all of the existing PK-232 modes - Pactor, VHF/HF Packet, AMTOR/SITOR, Baudot, ASCII, Morse, HF Weather FAX, TDM, and NAVTEX.

The PK-232/PSK comes with a complete cable and connector set in addition to Timewave's on-line and telephone support. As always, you can upgrade any PK-232 ever built to the latest PK-232SC!

### Specifications for the PK-232SC

DSP Filters, demodulator	16 bit Analog Devices 2104 with 16 bit A/D-D/A for Optimum filters for each mode, limiter, 4-pole discriminator, 5-pole post-detection low-pass filter
Modulator	Phase continuous sinewave, AFSK generator
Modulator output level	5-200 mV RMS
Processor system	Zilog Z-80, ADSP2105
Memory	32K Lithium battery-backed RAM, 128k RAM
Audio	internal USB Audio sound card
Hardware HDLC	Zilog 85C30 SCC
Power requirements	+12 to +16 VDC @ 590 mA (700 mA. recommended)

### Input/Output Connections

Radio interface	Two 5-pin connectors, front panel selectable
Direct FSK outputs	Normal/Reverse
Scope outputs	Mark, space
CW keying outputs	+100 VDC @ 200 mA max and -25 VDC @ 30 mA max
Terminal interface	USB (galvanic isolation from PK-232 circuitry)
Terminal data rates	Autobaud settings at 300, 600, 1200, 2400, 4800, & 9600 bps
Rig Control interface	Yaesu CAT, Icom CIV, Kenwood TX/RX/RTS/CTS logic level
USB Ports	Two USB 2.0, 100mA each

### Physical

Dimensions	11" (279mm)W x 8.25" (210mm)D x 2.5" (64mm)H
Weight	3 lbs (1.35 kg)



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