PK-232/PSK
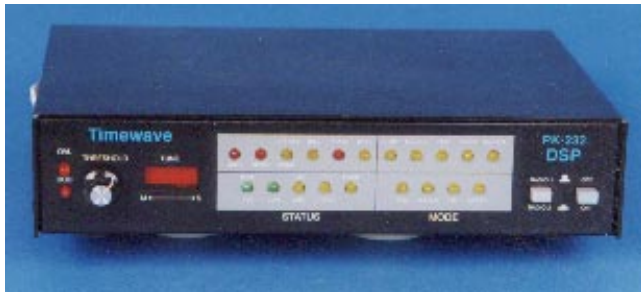
Multimode Data Controller

Timewave's Sound Card Interface Improves the PK-232/DSP!

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 sound card interface, the PK-232/PSK rolls it all into one! The PK-232/PSK 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-232/PSK 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-232/PSK is compatible with all existing software terminal programs for the PK--232.

Software controlled and mode independent

The sound card mode is software controlled. For example, when operating with PK-TERM'99, changing to PSK31 from Pactor is a simple menu click. To run programs like PSK31, SSTV, MT63, Hellschreiber and MFSK16, as well

Features

- **Digital Signal Processor**
- **18 DSP Filters**
- **Twin Peak RTTY Filters**
- **Adaptive PACTOR filters**
- **100 Hz CW Filter**
- **Works with all sound card modes**
- **Sound card cable provided**
- **Transformer isolation for sound card input and output connections**

as new future modes, just run Timewave's ModeSwitch® program or enter a few short keyboard commands prior to executing the sound card application.

All the Proven Modes + All the Sound Card Modes

The PK-232/PSK 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.

Specifications for the PK-232/PSK

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, ADSP2104
RAM	32K Lithium battery-backed
ROM	128K
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	RS-232-C 25-pin DB-25 connector
Terminal data rates	Autobaud settings at 300, 600, 1200, 2400, 4800, & 9600 bps
Sound card interface	5-pin connector, dual transformer isolation

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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