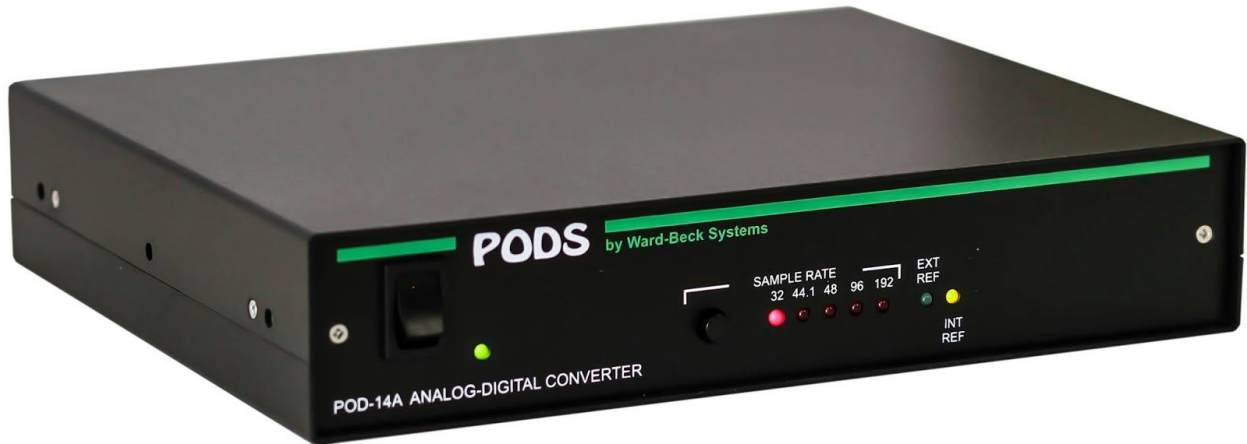


POD14A

DUAL ANALOG TO DIGITAL CONVERTER



by Ward-Beck Systems

POD14A

DUAL ANALOG TO DIGITAL AUDIO CONVERTER

This is one of many in our line of top quality, low-cost broadcast problem solvers. PODs are compact, rugged and affordable. They are suited for tabletop or rack-mountable singly or in pairs, in any combination.

POD14A is a dual AES/EBU analog to digital audio converter. This unit comes ready for use in 75 or 110 Ohm installations. POD14A can generate digital audio signals at sampling rates of 32, 44.1, 48, 96 and 192 kHz using its internal oscillator. Alternatively, the sampling rate of the digital output signals may be referenced to an external reference source.

FRONT PANEL

Front panel controls and tallies include a power switch with LED tally, a momentary step switch and LED indicators to cycle through the internally generated sample rates from 32 to 192 kHz. Two LEDs that indicate whether the external or internal reference is used. The external sampling rate reference signal has precedence over the internally generated signal. As soon as an external reference signal is detected, POD14A will automatically switch to it.

REAR PANEL

Connections to POD14A are made on the rear panel. Analog inputs are via 3-pin Phoenix® pluggable connectors, connections to the digital reference and two digital outputs may be made by using the Phoenix® 3-pin pluggable connectors for balanced 110 Ohm installation or BNCs for unbalanced 75 Ohm installation. Level trim controls for analog input signal level control are located adjacent to the analog input connectors. The AC power cord and Fuse are also located on the rear panel.

SETUP

There are no special setup procedures necessary prior to using POD14A. Simply plug the unit into an AC power outlet and connect input and output cables. POD14A is factory calibrated to output a nominal -20dBFS digital signal when a +4 dBu signal is applied at the analog inputs. The input trim controls may be used to set POD14A up for a different nominal digital output signal.

SPECIFICATIONS

DIGITAL REFERENCE INPUT

Input Impedance	75Ω or 110Ω
Input Level	0.2-7V p-p
Sampling Frequency Range	32kHz to 192kHz

ANALOG AUDIO INPUT

Input Impedance	24kΩ balanced
Maximum Input	+24 dBu
Frequency Response	± 0.1 dB, 20Hz to 20kHz

DIGITAL AUDIO OUTPUT

Resolution	24 bits
Output Standard	AES/EBU 75Ω unbalanced and 110Ω balanced
External Sampling Frequency	32kHz to 192kHz
Internal Sampling Frequency	Selectable 32, 44.1, 48, 96 and 192kHz
Jitter	less than 5 ns
Level	1 Vp-p terminated
Noise	better than -115 dBFS, 20Hz to 20kHz Typical unweighted
Total Harmonic Distortion + Noise	better than 0.01%

GENERAL

Power Requirements	100-240 VAC, 50-60 Hz
Dimensions	8.69" wide x 1.73" high x 7.0" deep (221mm x 44mm x 178 mm)
Weight	3.01 lbs (1.37 kg)

All the preceding specifications were taken with a 48 kHz external reference.

Ward-Beck Systems Ltd. reserves the right to change performance specifications without prior notice.

WARRANTY

All Ward-Beck Systems Ltd. products are warranted against defective materials and workmanship for a period of one year from the date of shipment.

Ward-Beck Systems Ltd. will repair or replace, at its option and without charge, all said products or parts thereof which upon factory inspection prove to be defective during the warranty period, provided that:

1. The original serial numbers are intact and have not been tampered with.
2. The purchaser shall return any equipment or parts thereof to Ward-Beck Systems Ltd. only after obtaining prior authorization and shipping instructions from the factory. (Ward-Beck Systems Ltd. reserves the right to inspect or repair equipment on the purchaser's premises).
3. The purchaser assumes the obligation for all expenses in connection with the shipping and return of such goods, once authorization has been obtained.

This warranty does not cover items normally considered expendable, such as fuses and lamps.

This warranty does not cover damages caused by misuse, accident, neglect, unauthorized alteration, repair by unauthorized personnel, or damage caused by an act of God, war, or civil insurrection.

In no event shall Ward-Beck Systems Ltd. be liable for consequential damages. Ward-Beck Systems Ltd. shall have the rights to final determination as to the application of this warranty.

Ward-Beck Systems Ltd. reserves the right, at any time and without notice, to make changes in its equipment, components, specifications or designs, as may be warranted by progress in state-of-the-art technology.

Ward-Beck Systems Ltd. reserves the right to make design changes, additions to, and improvements in its products, without obligation to install such revisions in products previously manufactured.

The warranty set forth herein is in lieu of all other warranties expressed or implied, including the warranties of merchantability and fitness.

WARD-BECK SYSTEMS LTD.
945 Middlefield Road, Unit 9, Toronto, Ontario M1V 5E1
V 416 335 5999 F 416 335 5202 Toll-Free 800 771 2556
Website: www.ward-beck.com
E-Mail: sales@ward-beck.com