

# TREMETRICS®

## RA300 Series



### Automatic testing at an affordable price

- Meets all OSHA and ANSI requirements
- RA232 Software and Printer Interface
- RA300 Plus has internal talk over capability
- RA300 Plus becomes a fully PC controlled audiometer when used with HT Pro or HT Wizard PC software packages

## RA300 and RA300 Plus Digital Screening Audiometers

In smaller hearing conservation programs, manual audiometry testing costs you money every day. It's time consuming for you as well as for those you test. The RA300 is a perfect solution: affordable, easy to use with minimal training, and able to deliver accurate test results automatically. The RA300 is a great fit for any hospital, family physician, community or occupational health clinic.

The RA300 Plus incorporates several additional features. With the internal memory to hold up to 64 tests and built-in talk-over capability, the RA300 Plus brings added value to your hearing conservation program. In addition, when used with the Tremetrics software packages, the audiometer becomes a fully computer controlled solution to your hearing conservation needs.



# RA300 Series

## Technical Specifications

Response levels are displayed on the bright, backlit display. Automatic validity checks are built in. Random tone intervals and thresholds level between the 1000 Hz pretest and the main test to deter anticipated response patterns. Error conditions which require operator attention are noted on the readout and signaled by an audible tone.

After the test has been completed, results can be reviewed and written on an audiogram form, printed, or transferred to a computer through the RS232 computer interface.

### Computer compatible, multimedia ready

The RA300 is truly versatile – it can emulate the data format of the Tracor/Tremetrics RA500 audiometer when used with many of the popular PC-based hearing conservation software programs. In addition, the RA300 Plus package\* interfaces with the latest software programs that offer PC-control and monitoring of test results. This is the very first audiometer that is “multimedia” ready, including interactive, computer-voice instructed testing (patented).

### Versatile output/storage choices

Menu selections, from hard copy output to digital computer files, provide a choice of formats for reporting/data transfer. The RA300 may be interfaced to most types of serial (RS232C) printers through an easy to use “Special” function. A selection of 20-column, 40-column, standard 8.5” x 11”, or A4 paper formats accommodates your portable label printer. For computer-based testing programs, an optional 64-audiogram auto-store function conveniently saves test data in the audiometer.

*\*The RA300 Plus includes multimedia, talk-over and 64-audiogram storage. U.S. Patents #5,811,681; #6,416,482; #6,644,120*

**ONE YEAR LIMITED WARRANTY:** This warranty is extended to the original purchaser of the instrument, by Tremetrics, through the distributor or manufacturer from whom it was purchased. The warranty covers defects in material and workmanship for a period of one year from date of delivery of the instrument to the original purchaser. Accessories which are purchased from Tremetrics at the same time as the instrument are warranted for one year from the date of purchase. For additional information, contact your local distributor or Tremetrics directly.

### Specifications

- Exceeds ANSI S3.6-1969-2010, qualifies as a microprocessor audiometer under OSHA
- Test frequencies: 500, 1000, 2000, 3000, 4000, 6000, 8000 Hz
- Test modes: Automatic, semi-automatic and manual
- Frequency accuracy: Better than 1%, crystal controlled
- Distortion: Total harmonic distortion below 40 dB (1%)
- HL attenuator: 0 to 100 dB in 5 dB steps, accuracy  $\pm 1$  dB
- Electronic calibration: Through keyboard, or through computer with compatible software program (optional)
- Rise/Fall time: Meets ANSI specifications
- Earphones: Telephonics TDH-39, 10 ohm earphones in Model 41 cushions
- Mechanical: High impact plastic housing, sealed membrane keyboard with two-line backlit vacuum fluorescent display, internal talk-over microphone (optional)
- Dimensions: 13” W x 4.5” D x 11.25” H
- Weight 6 lbs
- Power: Auto-selectable 90 - 240V with transient suppression for power line spikes
- Computer/printer interface: RS232 port
- Data output: 600 - 19200 baud, selectable
- Multiple data output formats: 20-column, 40-column, 8.5” x 11”, A4 or computer file
- Clock: Real-time, battery backed, time of day printout