

# TM 262™ AutoTymp™

TODAY'S MOST VERSATILE TYMPANOMETRIC INSTRUMENT

**NEW!  
OPTIONAL  
RS-232 Port**  
DOWNLOAD DATA  
EASILY TO YOUR PC



TYMPANOMETRY, ACOUSTIC REFLEX TESTING AND OPTIONAL  
AUDIOMETRY IN ONE EASY-TO-USE INSTRUMENT

- EASY TYMPANOMETRIC SEAL
- FAST TEST AND PRINTOUT
- PROGRAM FEATURES TO MEET INDIVIDUAL NEEDS
- MEMORY CAPACITY FOR UP TO EIGHT TESTS

  
**Welch Allyn**

# THE THREE-IN-ONE INSTRUMENT THAT BRINGS AUDIOLOGIC SCREENING TO A NEW LEVEL —EASILY AND AFFORDABLY.

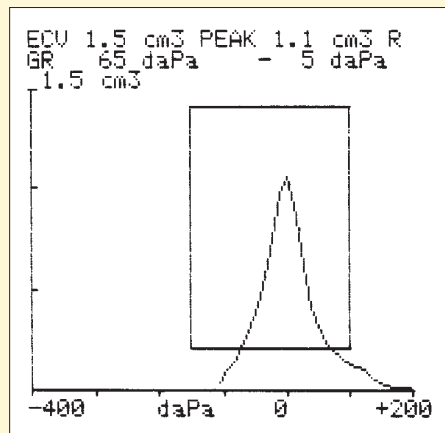


The Welch Allyn TM 262™ Auto T ymp™ offers tympanometry and ipsilateral acoustic reflex testing—with optional manual audiometry—in one convenient, compact design. The TM 262 Auto T ymp gives users more options and more data, for more complete diagnoses and documentation.



## Tympanometry with Total Confidence

Tympanometry provides the most accurate, objective means of determining middle ear status. Now, achieve the easiest ear seal ever with the TM 262's unique probe design. The probe enhances both tympanometry and acoustic reflex testing—yielding an important advantage when testing very young or uncooperative patients. And the probe's three LEDs give a step-by-step accounting of the test status—indicating proper ear seal, test mode and test completion—so users can put complete focus on the patient.



Tympanogram

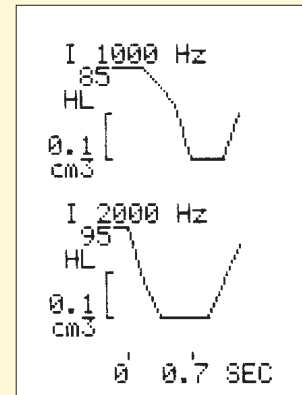
The TM 262 Auto T ymp provides objective data to help detect and document a host of middle ear pathologies quickly and confidently:

- Otitis media
- Perforated tympanic membrane
- Patent tympanostomy tube
- Ossicular disruption
- Tympanosclerosis
- Cholesteatoma

## Acoustic Reflex Testing—a Valued Plus

Capable of determining the presence or absence of the acoustic or stapedial reflex in the normal ear, acoustic reflex testing is used to further validate tympanometric results and to test the integrity of specific neuronal pathways, providing vital supplemental information on possible hearing loss.

To better meet individual user's specific needs, the TM 262 Auto T ymp delivers the flexible option to test for an ipsilateral (same ear) reflex in any combination of four frequencies: 500, 1000, 2000 and 4000 Hz.



Acoustic Reflex Results

The TM 262 Auto T ymp provides the flexibility to display and print acoustic reflex results in one of three modes:

- Reflex curves and dB HL values (shown above)
- dB HL values only
- Yes/No responses instead of values

## Audiometry— The Extra Option



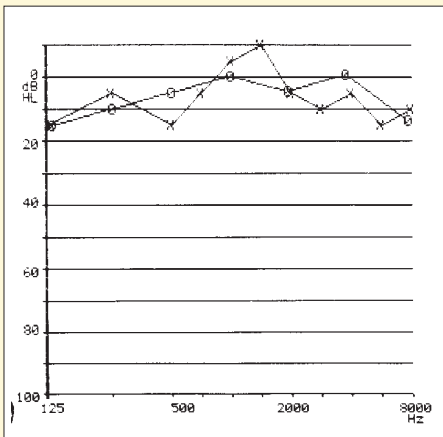
The TM 262 Auto Tympanometer can be purchased with manual audiometry or upgraded later to include audiometry, so it grows with the user's needs.

Use audiometry to test for hearing loss in a full range of frequencies (125 to 8000 Hz) and intensity levels (-10 to 100 dB HL).

Includes these advantages:

- Perform complete threshold testing
- Selection modes that let users choose steady, pulsed or frequency-modulated tones
- Easy-to-use controls
- Large, easy-to-read LCD screen
- Convenient printout options that let users choose audiogram or table format
- Response handswitch (optional)—helps operator stay focused on patient

An important note about the frequency-modulated or FM (warble) tones: users find children and older people often respond better to FM tones than to steady or pulsed tones, yielding more reliable results for patients in these age groups.



Audiogram

## DESIGNED TO DO MORE.

Here are a few more reasons to consider the new TM 262 Auto Tympanometer the one choice for office practice, clinics, industrial testing and mass screenings:

- Three-in-one instrument with built-in display and printer saves space and the expense of buying separate units
- Improved ear seal via lightweight, handheld probe
- Advanced microelectronics deliver precision results with every use
- Test-parameter flexibility—lets user decide how to run tests
- Convenient memory capacity stores up to eight test results—instantly
- Printout flexibility—prints individual test results or complete battery, eliminates need for note taking

■ Outstanding performance backed by a built-in calibration check—and Welch Allyn's reputation for dependable service

**NEW!**

- And now you can enhance the versatile features of the TM 262 with an optional RS-232 port to download patient data to PC's

The TM 262 takes your practice's diagnostic capabilities to a new level, offering outstanding performance at an affordable price. Combining tympanometry, acoustic reflex testing and optional audiometry in one easy-to-use instrument makes the Welch Allyn TM 262 Auto Tympanometer a very *sound* investment.



## Specifications

### Tympanometry and Reflex Modes

#### Probe Tone

**Frequency:** 226 Hz,  $\pm 3\%$

**Level:** 85.5 dB SPL,  $\pm 2.0$  dB measured in a 2.0 cm<sup>3</sup> coupler

**Harmonic Distortion:**  $< 5\%$

#### Admittance (Compliance)

**Uncompensated (ECV + Tymp peak):**

0.0 to 5.0 cm<sup>3</sup>

**Compensated Range:**

0.0 to 1.5 cm<sup>3</sup>

0.0 to 3.0 cm<sup>3</sup>

#### Pressure

**Volume Range:** 0.2 to 6.0 cm<sup>3</sup>

**Range:** +200 to -400 daPa

#### Tymp Test Time

Approximately one second

#### Gradient

Tymp pressure width at 50% of peak admittance

#### Reflex

##### Frequencies:

500, 1000, 2000, and 4000 Hz

**Accuracy:**  $\pm 3\%$

**Total Harmonic Distortion:**  $< 5\%$

**Rise/Fall Time:** 5 to 10 msec

##### Output Levels:

IPSI: 500 and 4000 Hz:

80, 90, 100 dB HL;

1000 and 2000 Hz:

85, 95, 105 dB HL

**Pressure:** Automatically set to pressure at peak compliance with an offset of -20 daPa

**Determination:** Compliance change of 0.05 cm<sup>3</sup> or greater

**Test Time:** 1 to 12 seconds

### Audiometry Mode

#### Frequency

##### Discrete Frequencies:

125, 250, 500, 750, 1000, 1500, 2000, 3000, 4000, 6000, 8000 Hz.

##### Intensity

Measured in 5 dB steps.

##### Ranges:

125 Hz -10 to 50 dB HL

500 to 6000 Hz -10 to 90 dB HL

250 and 8000 Hz -10 to 70 dB HL

**Note:** An additional +10 dB is available per frequency via the +10 dB push-button

#### Tone Presentation

##### Continuous:

Steady when present bar depressed

##### Pulsed:

2.5 pulse/sec (200 msec ON, 200 msec OFF)

**FM:** Tone frequency-modulated  $\pm 5\%$  of center frequency at a rate of 5 Hz.

#### Standards

##### The TM 262 meets the following:

ANSI S3.39-1987 Aural Acoustic Impedance/Admittance Standard, (Type 3); ANSI S3.6-1989 Audiometric Standard, (Type 4); IEC 1027-1991 Aural Acoustic Impedance Admittance, (Type 3); IEC 645-1 Pure Tone Audiometers, (Type 4); IEC 601-1 Medical Electrical Equipment Requirements for Safety; CSA C22.2 No. 601-1-M90 Electromedical Equipment Warnock Hersey Listed  
UL STD. 544 Standard for safety, ETL Listed

#### Power Consumption

15 W maximum while printing

#### Mechanical

##### Dimensions:

13.15" W x 14.5" D x 4.3" H  
(33.66 cm x 35.56 cm x 9.53 cm)

##### Weight:

10 lb (4.5 kg) net

14 lb (6.4 kg) shipping

#### Welch Allyn, Inc.

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P.O. Box 220  
Skaneateles Falls, NY 13153-0220  
800-535-6663 (in U.S.A. only) or  
315-685-4560  
315-685-3361 (FAX)

Printed in USA SM2001-01

#### Welch Allyn Canada Limited

160 Matheson Boulevard East  
Mississauga, Ontario  
Canada L4Z 1V4  
800-561-8797 (in Canada only) or  
905-890-0004  
905-890-0008 (FAX)

## Ordering Information

- #26200** TM 262 Auto Tymp with IPSI reflex, North America
- #26200-RS** Same as above, but includes RS-232 interface port
- #26205** TM 262 Auto Tymp with IPSI reflex, **export** (specify country & voltage)
- #26205-RS** Same as above, but includes RS-232 interface port
- #26230** TM 262 Auto Tymp with audiometer
- #26230-RS** Same as above, but includes RS-232 interface port
- #26235** TM 262 Auto Tymp with audiometer, **export** (specify country & voltage)
- #26235-RS** Same as above, but includes RS-232 interface port
- #05260** Carrying case
- #23220** Response handswitch
- #23221** Patch cord
- #23222** Earphone Sound Enclosures
- #26243** RS-232 Cable
- #26244** RS-232 Cable Adaptor
- #26100** Eartips (probe) 6 sizes, 2 each
- #26240** TM 262 Dust cover
- #52600** TM 262 Printer Paper (1 pkg., 5 rolls)

## WELCH ALLYN: A NAME CUSTOMERS CAN COUNT ON

For years Welch Allyn has delivered advanced, dependable products and reliable service worldwide. Count on the new TM 262 Auto Tymp to deliver nothing less than everything Welch Allyn customers expect.

