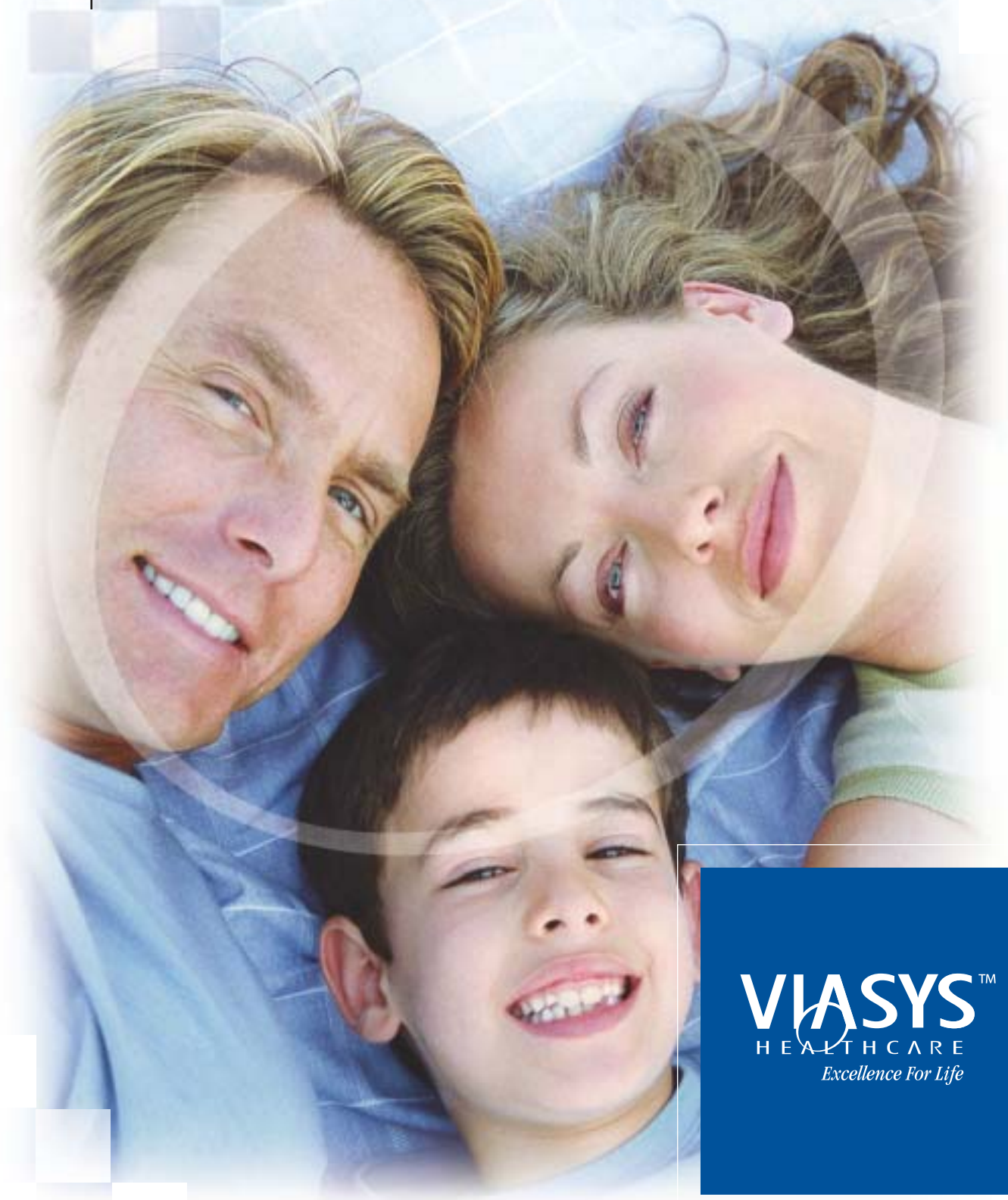


GSI TYMPSTAR™
COMPREHENSIVE MIDDLE-EAR ANALYZER



VIASYS™
HEALTHCARE
Excellence For Life

GSI TympStar



Your Comprehensive Middle-Ear Testing Solution

We've designed the GSI TympStar to suit the clinical needs of audiologists and hearing specialists worldwide. No other middle-ear analyzer offers a broader range of testing capabilities, and no other system provides hearing professionals with the versatility, flexibility and functionality they demand – whether in a clinical or research setting.

Versatility Is the Key

The GSI TympStar comes pre-programmed with a series of default parameters for each test mode. As your testing needs change, however, the GSI TympStar also allows you to easily alter test parameters through its Program Mode. You can even automate a desired test sequence. By using the Program Mode, the GSI TympStar also makes it possible for multiple operators to program their own default parameters for tympanometry and reflex-threshold testing.

Comprehensive Testing Made Simple

The GSI TympStar's ergonomically designed control panel allows you to select a test protocol by simply pressing a single button, and its large screen makes for easy viewing of test parameters, possible alternatives and test results. The high-speed printer generates reports in concise graphical or tabular formats that are easy to read. GSI TympStar options include:

- VGA monitor for displaying test results
- External printer that produces test results in a larger format
- Keyboard for entering patient information

The GSI TympStar also offers several options for managing and archiving data, including:

- Internal memory for storing up to 26 test results
- Standard RS 232
- NOAH-compatibility for easy data management
- Multilingual display, instrument controls and printout



The GSI TympStar's ergonomically designed control panel allows you to easily administer tests.

GSI TympStar *Version 1*

Version 1 of the GSI TympStar offers you four different testing modes, enabling you to perform a battery of tests efficiently, easily and accurately.



Acoustic Reflex Threshold Testing

Acoustic reflex testing with Version 1 of the GSI TympStar allows you to automatically or manually time the tone presentation. Multiple stimuli and intensities are available to determine the threshold level for the acoustic reflex. The peak pressure value from the tympanogram is automatically reset for reflex testing, or can be manually adjusted. In addition, you can program reflex threshold seeking, and mark the reflex threshold.



Reflex-Decay Testing

The GSI TympStar's screen clearly displays reflex-decay time in seconds, as well as marks the five- and ten-second interval points. And the peak pressure value from the reflex-threshold test is maintained for the decay test.

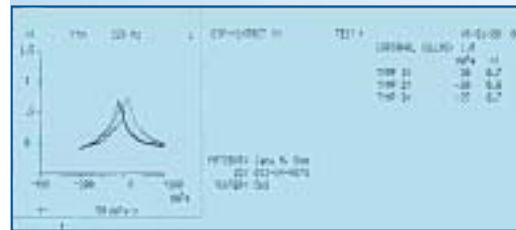
Diagnostic Tympanometry

Version 1 offers automatic or manual 226 Hz tympanometry in a diagnostic or screening mode. Sensitivity scales are automatically determined based on the peak amplitude of the tympanogram. The built-in screen can simultaneously display up to three tests, helping you to determine the presence or absence of a peak on a low-amplitude tympanogram.



Eustachian Tube Function (ETF) Testing

Two different modes are available. One for testing ETF with an intact tympanic membrane (TM) and one for testing ETF in a perforated TM. The ETF mode for an intact TM eliminates the need to instruct a patient to perform a Toynbee or Valsalva test.



Continuum of Confidence

From the integrity of **VIASYS Healthcare** to the reliability of the data from our equipment, the GSI TympStar is the most reliable, portable hearing screening system in the market.

COMPANY

With more than a century of combined experience, our trusted brands, Grason-Stadler, Nicolet and Toennies have provided **innovative technologies** for diagnostic audiology, neurodiagnostic, peripheral vascular and hand-held Doppler equipment.

EXPERIENCED SUPPORT

Our more than 220 trained regional and in-house representatives provide **unmatched customer support**. We're committed to helping you get the most out of your VIASYS diagnostic and monitoring systems.

HARDWARE

As with all our products, the GSI TympStar is designed to achieve the perfect balance of **simplicity, ease of use, and flexibility**.

SUPPLIES

To complement the performance offered by all of our systems, we offer a full line of quality supplies.

Excellence in life, excellence in design, and excellence in support: VIASYS Healthcare provides premier equipment, supplies, and services to help you offer the **quality of care** your patients expect.

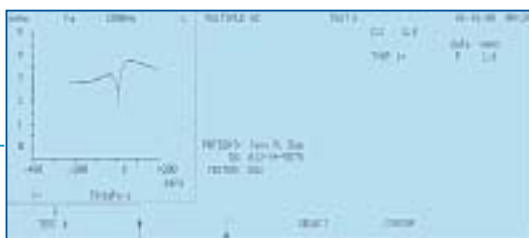


GSI TympStar *Version 2*



Two-Component Tympanometry

Version 2 offers more probe tones (226, 678 and 1,000 Hz) than conventional middle-ear diagnostic products. This helps you quickly and clearly determine where, along the ossicular chain, problems in the middle ear are occurring in patients of all ages.



Multiple Frequency Tympanometry

Multiple-frequency tympanometry allows you to easily determine the middle-ear resonance frequency. Normal middle ears exhibit a resonance frequency of between 800 and 1200 Hz. A middle ear with otosclerosis would be above 1200 Hz, and a disarticulated ossicular chain would be below 800 Hz. When used in pre- and post-operative test comparisons, this can give you quantitative proof of a patient's improvement.



No other middle-ear analyzer offers the advanced technology and complete flexibility of the GSI TympStar.

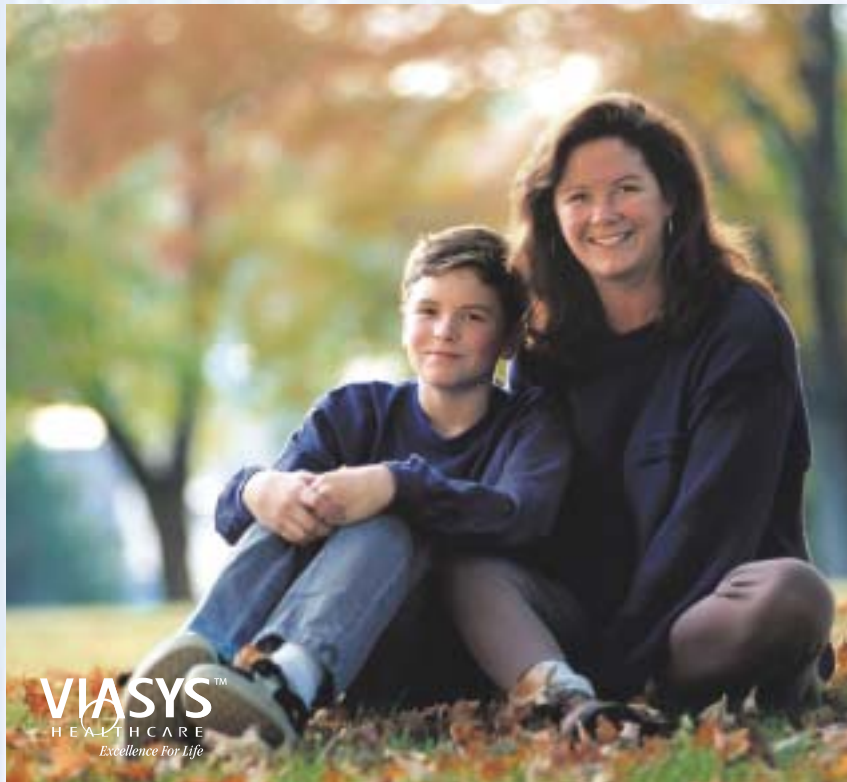
Version 2 of the GSI TympStar is the most complete middle-ear testing system you'll find. It combines all of the advanced features of Version 1 with the additional capacity to test Admittance (Y), Susceptance (B) and Conductance (G) at 226, 678 and 1,000 HZ probe tones. These enhanced testing capabilities have made Version 2 the preferred diagnostic middle-ear instrument for universities, medical schools and research labs.



The unique, ultra-light probe incorporated into the GSI TympStar's design is perhaps the most patient-friendly probe you'll find in a middle-ear analyzer. Its superior construction allows you to obtain a quick and effective seal – while its LEDs keeps you informed of test status.

Features Versions

	1	2
Tympanometry:		
Screening	>	>
Diagnostic	>	>
Two-Component		>
Reflex:		
Threshold	>	>
ETF:		
Intact Drum	>	>
Perforated Drum	>	>
Special:		
Reflex Decay	>	>
ARLT		>
Reflex Sensitization		>
Multiple Frequency		>
Program Mode	>	>



VIASYS HEALTHCARE—EXCELLENCE FOR LIFE

For more information about our audiology, neurodiagnostic, peripheral vascular and monitoring equipment, contact your VIASYS Healthcare professional. Offices in the U.S., Iceland, United Kingdom, Netherlands, Germany, and Japan with representative organizations worldwide.

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