

ACURIS™ P

ACURIS S

Technical Information for Behind-the-Ear Hearing Instruments

	2 ccm coupler		Ear simulator
	ANSI S3.22 - 1996	IEC 118-7	IEC 118-0
Output Sound Pressure Level			
2.5 kHz	–	130 dB	138 dB
Peak	131 dB	131 dB	138 dB
HF-Average OSPL 90	125 dB	–	–
Gain (Input 50 dB)			
2.5 kHz	–	69 dB	78 dB
Peak	70 dB	70 dB	78 dB
HF-Average	63 dB	–	–
Reference test gain	48 dB	55 dB	63 dB
Frequency Range			
Low frequency limit	150 Hz	–	DIN 45 605 200 Hz
High frequency limit	6000 Hz	–	5400 Hz
Total Harmonic Distortion			
500 Hz	5%	5%	5%
800 Hz	4%	4%	4%
1600 Hz	3%	3%	3%
Equivalent Input Noise			
Residual noise during the normal working procedure	19 dB	13 dB	13 dB
	<10 dB	<10 dB	<10 dB
Induction Coil Sensitivity			
MASL* (1mA/m) at 2.5 kHz	–	91 dB	101 dB
HFA SPLITS** (left/right)	96/100 dB	–	–
STS*** (left/right)	-12/-8 dB	–	–
AGC-O			
Attack time	5 ms	–	–
Release time	90 ms	–	–
Battery			
Battery Current Drain	1.8 mA	1.6 mA	1.6 mA
Battery Life			
Battery Voltage	1.3V		
Type 13 Cell Zinc-Air	~120 h		
IRIL IEC 118-13			
800-960 MHz	–	-11 dB	–
1400-2000 MHz	–	-8 dB	–
AI-DI			
	–	6.0 dB	–

Technical information for e2e wireless function: Operating frequencies f_{low} = 115 kHz, f_{high} = 120 kHz;
 Rated H-field strength (maximum): -11.5µA/m at 3 meters

AI-DI AI= Articulation Index DI= Weighted Directivity Index

*MASL= Magneto Acoustical Sensitivity Level

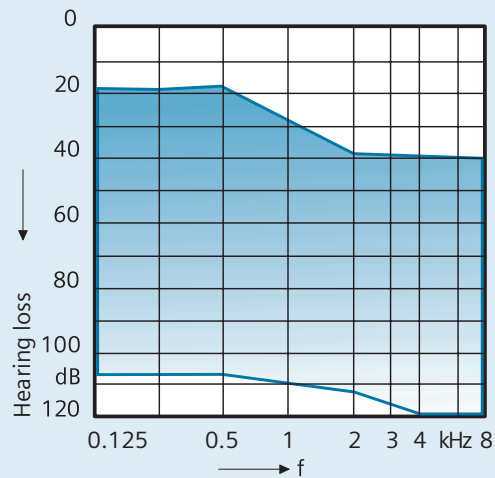
**SPLITS= Coupler SPL for an Inductive Telephone Simulator

***STS= Simulated Telephone Sensitivity

Measure instructions: Instrument in linear setting. Input signal: Sinus Burst; Frequency: 2500 Hz; Low Level: 33 dB; High Level: 60 dB, Interval: 250 ms; On-Time: 125 ms.



Fitting Range



Premium Features

- Programmable BTE instrument with e2e wireless™
- Optimized solution for binaural fitting
- Monaural device with upgrade possibility to a binaural system, e2e wireless standard
- For moderate to severe hearing loss
- Binaural program selection with e2e wireless
- High performance TriMic™ directional microphone system, automatic and multi-channel adaptive operation
- High speed automatic feedback cancellation
- Automatic situation detection including music detection
- Adaptive noise reduction and adaptive speech enhancement
- Four individual hearing programs for microphone, audio boot and/or telecoil mode
- Professional and efficient fitting with new workflow oriented CONNEX™ software

Amplifier

- Fully digital 16-channel amplifier with e2e wireless

Options

- Housing in beige, tobacco, gray, granite, silver, black, and transparent. Translucent fashion colors: purple, green, blue, yellow, and pink.

Standard Features

- e2e wireless
- Automatic gain control; the gain can also be individually changed by means of a manual volume control
- Audio input
- Programmable Telecoil
- Battery compartment with lock and ON/OFF switch
- Programmable ON/OFF function for push button
- Battery type 13
- Audible signal indicators for low battery voltage, program change, volume control

Accessories

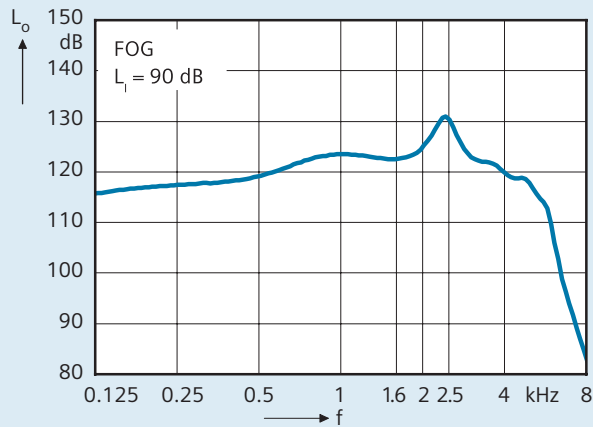
- ePocket™ bi-directional remote control with read out function; clip and cover included
- Audio boot
- Small earhook
- Eyeglass adapter

Battery

Battery voltage	1.3 V
Battery current drain: ANSI	1.8 mA
Battery life Type 13 Zinc Air	~120 hrs

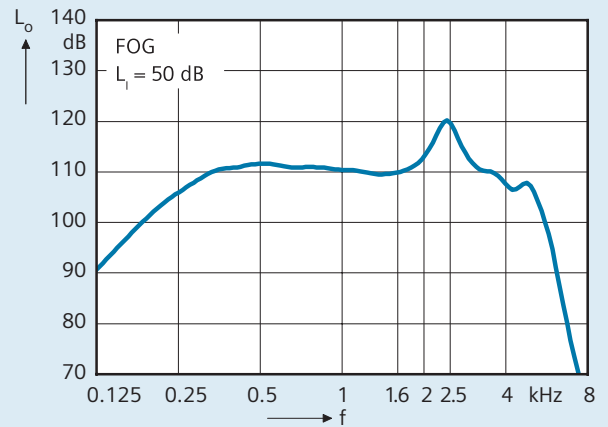
Output Sound Pressure Level/OSPL 90

ANSI S3.22-1996, IEC 118-7/A1



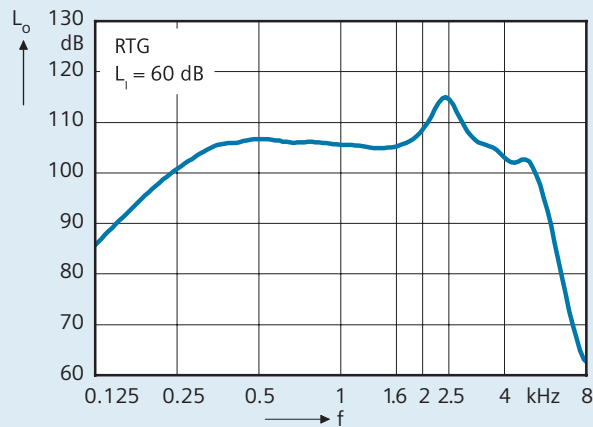
Maximum Gain

ANSI S3.22-1996, IEC 118-7/A-1



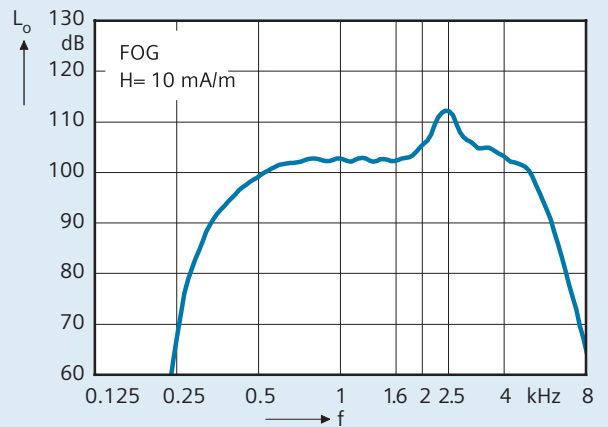
Basic Acoustic Response

IEC 118-7/A1



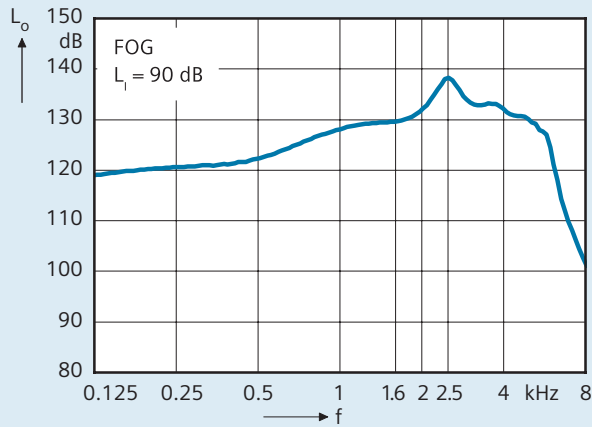
Inductive Response

IEC 118-7/A1



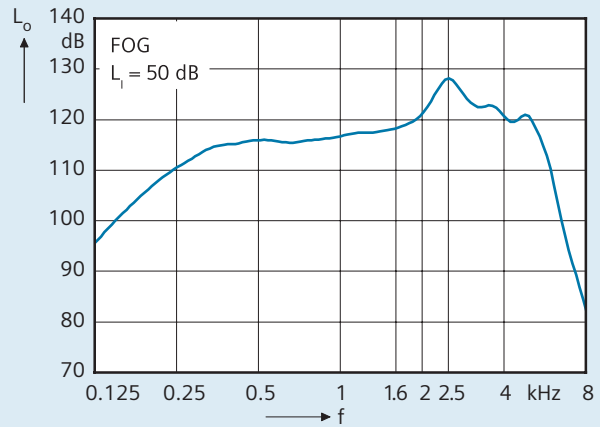
Output Sound Pressure Level/OSPL 90

IEC 118-0/A1



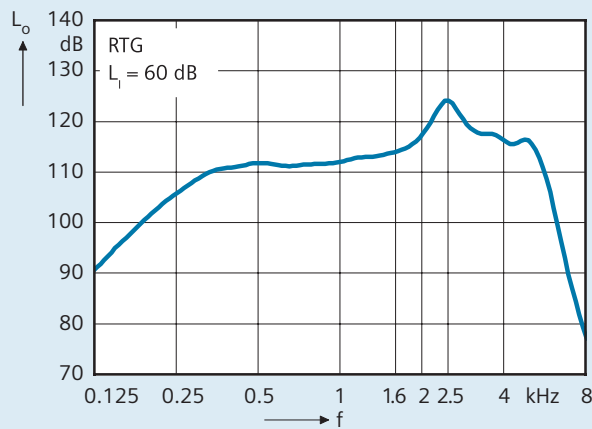
Maximum Gain

IEC 118-0/A1



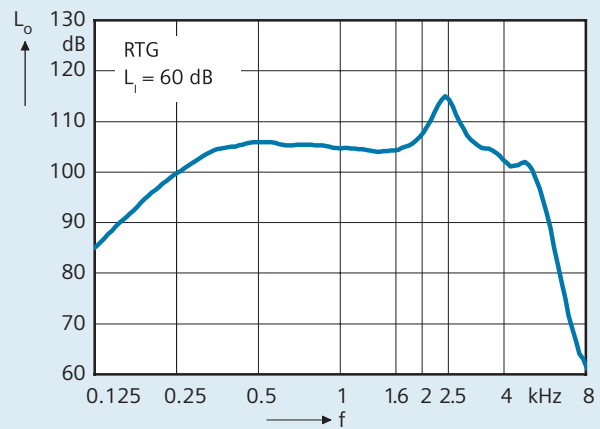
Basic Acoustic Response

IEC 118-0/A1



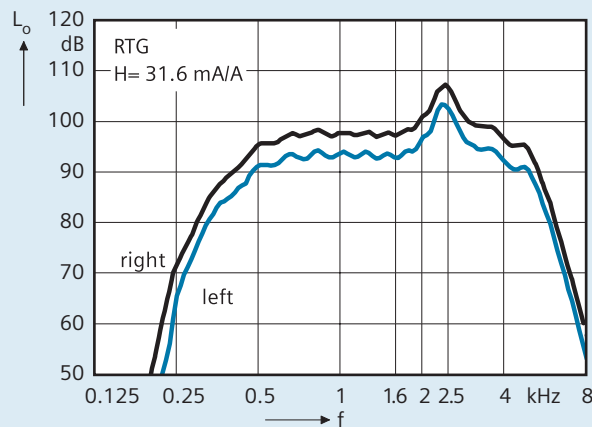
Frequency Response

ANSI S3.22-1996



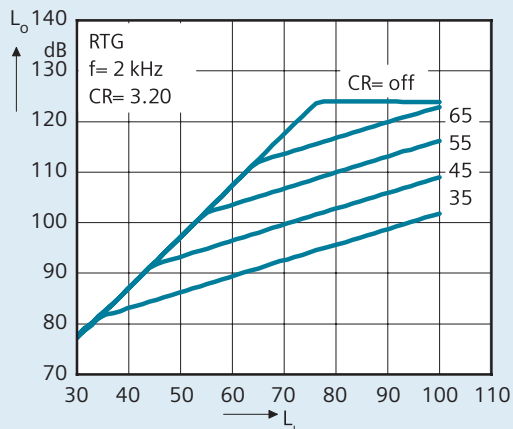
Inductive Response

ANSI S3.22-1996



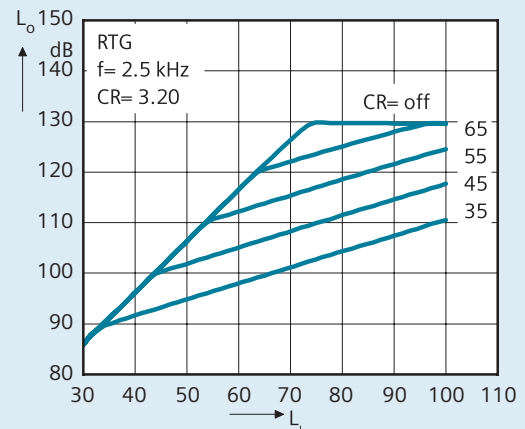
AGC-I Effect of CK-Control

ANSI S3.22-1996



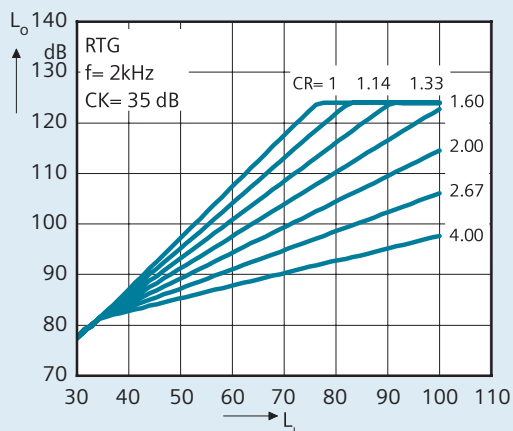
AGC-I Effect of CK-Control

IEC 118-7/A1



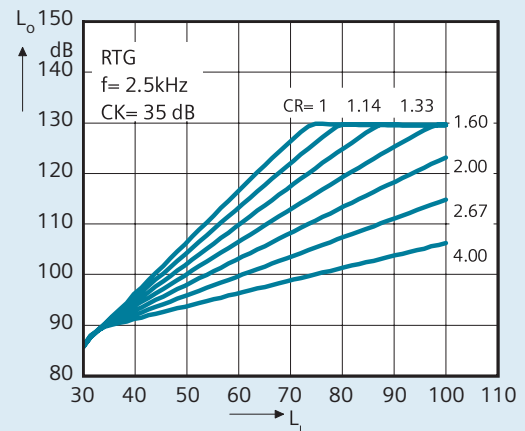
AGC-I Effect of CR-Control

ANSI S3.22-1996



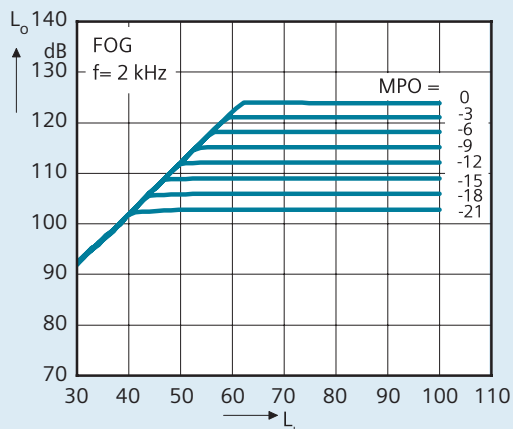
AGC-I Effect of CR-Control

IEC 118-7/A1



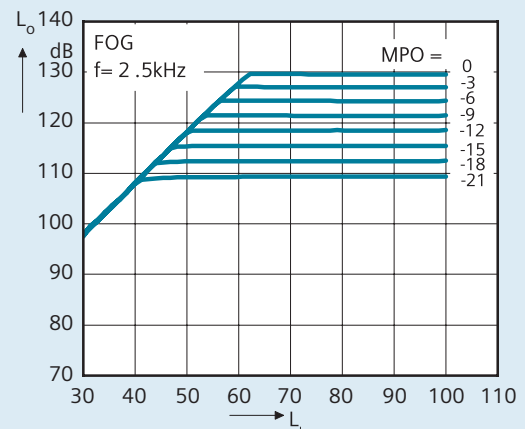
AGC-O Effect of MPO-Control

ANSI S3.22-1996

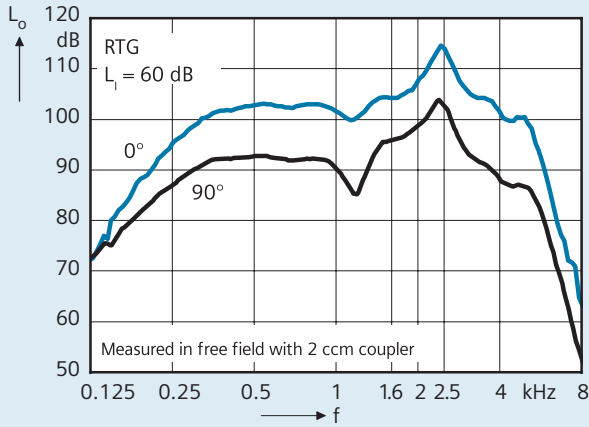


AGC-O Effect of MPO-Control

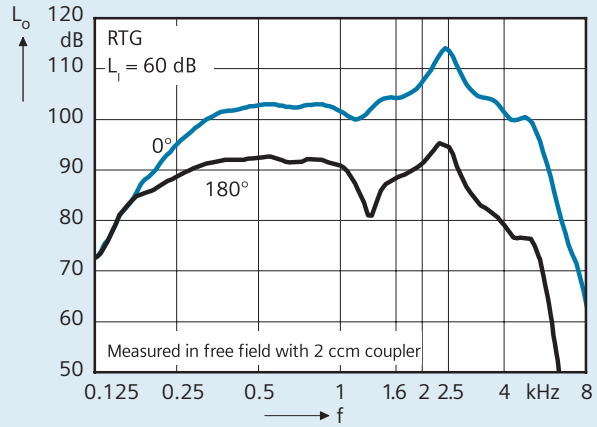
IEC 118-7/A1

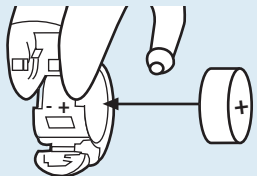
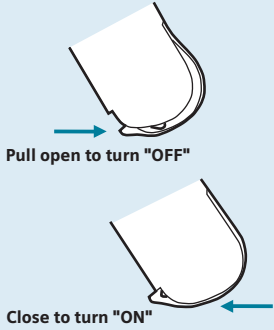
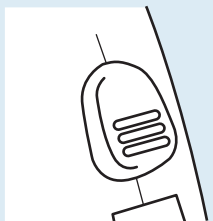

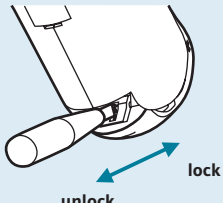
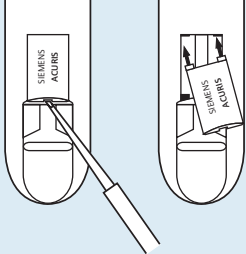



Frequency Response from Front and Side



Frequency Response from Front and Rear



	<h3><u>Insert the Battery</u></h3> <p>Open the battery compartment and place the battery so the "+" symbol on the battery coincides with the "+" marked on the battery compartment – battery type 13.</p>
	<h3><u>Turn the Hearing System ON and OFF</u></h3> <p>There are two ways to turn the ACURIS P ON and OFF. The first way is by using the battery compartment. When it is completely closed, ACURIS P is "ON." Opening the battery compartment to the first stop means that ACURIS P is "OFF."</p> <p>The second way to turn the instrument ON and OFF is by using the program button. By pressing the program button for approx. 2 seconds, the hearing instrument can be turned ON and OFF.</p>
	<h3><u>Program Change</u></h3> <p>ACURIS P can have up to 4 hearing programs, which can be selected with the program button or automatically by attaching the audio boot. Each time the program button is pressed, ACURIS P changes to the next program, which is confirmed with an audible signal indicator (beep). The number of beeps is identical to the selected program. Meaning when program "4" is selected, 4 beeps are heard.</p>
	<h3><u>Programming Socket</u></h3> <p>The programming socket lies under a flap below the program button. With a suitable tool, open the flap. After the programming procedure is complete, close the flap using your fingernail.</p>
	<h3><u>Battery Lock</u></h3> <p>ACURIS P is equipped with a battery compartment lock. To lock the battery compartment, open the compartment door to the first stop. Push the slide to the right with a suitable tool. To unlock the battery compartment, open the compartment door to the first stop. Push the slide to the left with a suitable tool.</p>
	<h3><u>Changing the Type Plate</u></h3> <p>To mark the left and right side of your ACURIS P instruments when fitting binaural, exchange the housing colored type plates on the inner curve of the instruments for blue (left) and red (right) ones. Use a suitable tool to lift and remove the type plate. Lock the two pins on the new type plate into the openings, and press gently into position with your finger.</p>
	<h3><u>Volume Control</u></h3> <p>ACURIS P is fully automatic. If there is a need for using the volume control, rotate the wheel upwards to increase the volume and rotate down to decrease the volume.</p>

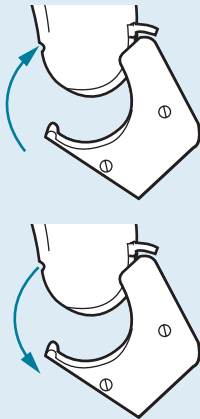


ePocket™

The ACURIS P hearing system supports the use of ePocket™, a bi-directional remote control with read out function.

ePocket can change the hearing programs and the volume of ACURIS P. The ePocket read out function will display the current program, volume level and battery status of the instrument(s).

ePocket includes a cover and clip.



Audio Boot

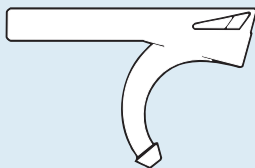
To attach an audio boot to ACURIS P, open the battery compartment to the first stop. Open the flap under the programming socket and hook the audio boot in from the front. Press the audio boot into place so that it attaches to the back and the curve of the audio boot presses against the bottom of the hearing system.

To remove the audio boot, pull it toward the front. Then unhook the audio boot and close the flap.



Earhook, Small

Optimal fitting for smaller ears.



Eyeglass Adapter

To fit the ACURIS P onto eyeglasses, a transparent eyeglass adapter is available.

	2 ccm coupler		Ear simulator
	ANSI S3.22 - 1996	IEC 118-7	IEC 118-0
Output Sound Pressure Level			
2.5 kHz	–	122 dB	131 dB
Peak	123 dB	123 dB	132 dB
HF-Average OSPL 90	121 dB	–	–
Gain (Input 50 dB)			
2.5 kHz	–	53 dB	62 dB
Peak	55 dB	55 dB	64 dB
HF-Average	52 dB	–	–
Reference test gain	44 dB	46 dB	55 dB
Frequency Range			DIN 45 605
Low frequency limit	<100 Hz	–	200 Hz
High frequency limit	6300 Hz	–	6000 Hz
Total Harmonic Distortion			
500 Hz	3%	3%	3%
800 Hz	2%	2%	2%
1600 Hz	1%	1%	1%
Equivilent Input Noise	18 dB	15 dB	15 dB
Residual noise during the normal working procedure	<10 dB	<10 dB	<10 dB
Induction Coil Sensitivity			
MASL* (1mA/m) at 2.5 kHz	–	85 dB	94 dB
HFA SPLITS** (left/right)	105/103 dB	–	–
STS*** (left/right)	1/-1 dB	–	–
AGC-O			
Attack time	5 ms	–	–
Release time	90 ms	–	–
Battery			
Battery Current Drain	1.2 mA	1.0 mA	1.0 mA
Battery Life			
Battery Voltage		1.3V	
Type 13 Cell Zinc-Air		~190 h	
IRIL IEC 118-13			
800-960 MHz	–	-11 dB	–
1400-2000 MHz	–	+1 dB	–
AI-DI		4.3 dB	

Technical information for e2e wireless function: Operating frequencies $f_{low}= 115$ kHz, $f_{high}= 120$ kHz; Rated H-field strength (maximum): $-11.5\mu A/m$ at 3 meters

AI-DI AI= Articulation Index DI= Weighted Directivity Index

*MASL= Magneto Acoustical Sensitivity Level

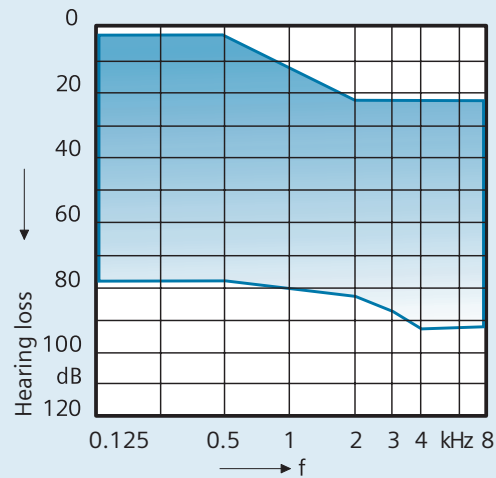
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***STS= Simulated Telephone Sensitivity

Measure instructions: Instrument in linear setting. Input signal: Sinus Burst; Frequency: 2500 Hz; Low Level: 33 dB; High Level: 60 dB, Interval: 250 ms; On-Time: 125 ms.



Fitting Range



Premium Features

- Programmable BTE instrument with e2e wireless™
- Optimized solution for binaural fitting
- Monaural device with upgrade possibility to a binaural system, e2e wireless standard
- For mild to moderate hearing loss, ski-slope hearing loss and first time wearers
- Binaural program selection with e2e wireless
- High performance TwinMic™ directional microphone system, automatic and multi-channel adaptive operation
- High speed automatic feedback cancellation
- Automatic situation detection including music detection
- Adaptive noise reduction and adaptive speech enhancement
- Four individual hearing programs for microphone, audio boot and/or telecoil mode
- Professional and efficient fitting with new workflow oriented CONNEXX software

Amplifier

- Fully digital 16-channel amplifier with e2e wireless

Options

- Housing in beige, tobacco, gray, granite, silver, black, and transparent. Translucent fashion colors: purple, green, blue, yellow, and pink.

Standard Features

- e2e wireless
- Audio input
- Programmable Telecoil
- Battery compartment with lock and ON/OFF switch
- Push button for program selection with audible signal indicators for program change
- Programmable ON/OFF function for push button
- Battery type 13
- Audible signal indicators for low battery voltage

Accessories

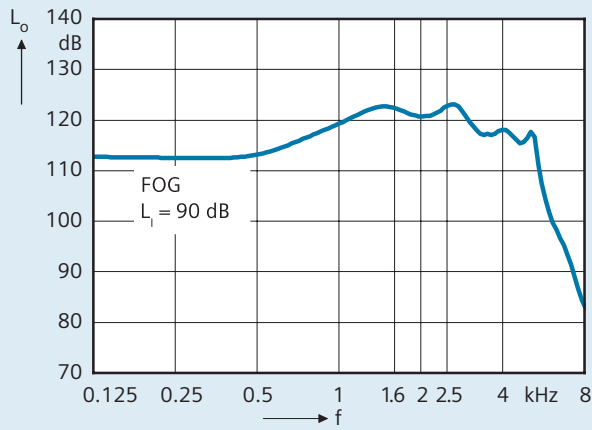
- ePocket™ bi-directional remote control with read out function; clip and cover included
- Audio boot
- Small earhook
- Eyeglass adapter

Battery

Battery voltage	1.3 V
Battery current drain:	
ANSI	1.2 mA
Battery life	
Type 13 Zinc Air	~190 hrs

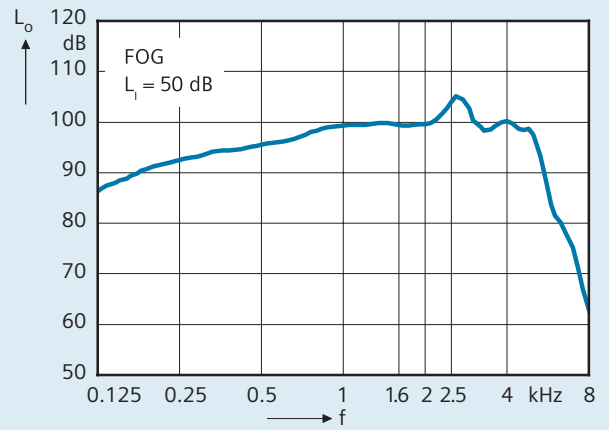
Output Sound Pressure Level/OSPL 90

ANSI S3.22-1996, IEC 118-7/A1



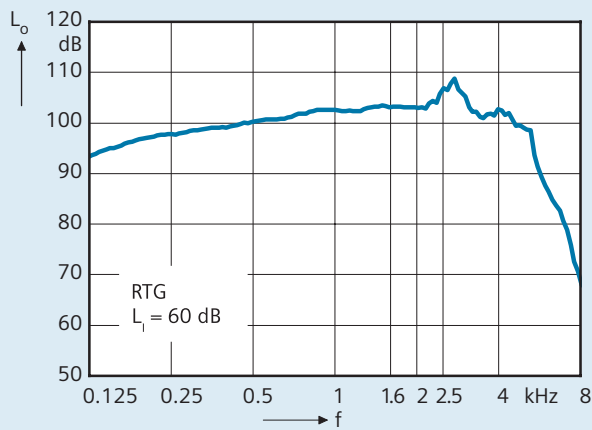
Maximum Gain

ANSI S3.22-1996, IEC 118-7/A1



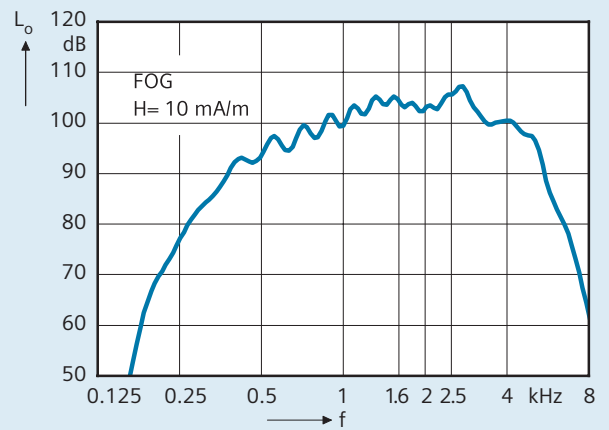
Basic Acoustic Response

IEC 118-7/A1



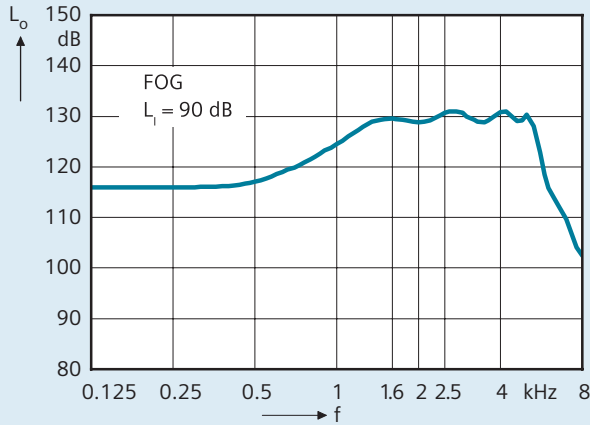
Inductive Response

IEC 118-7/A1



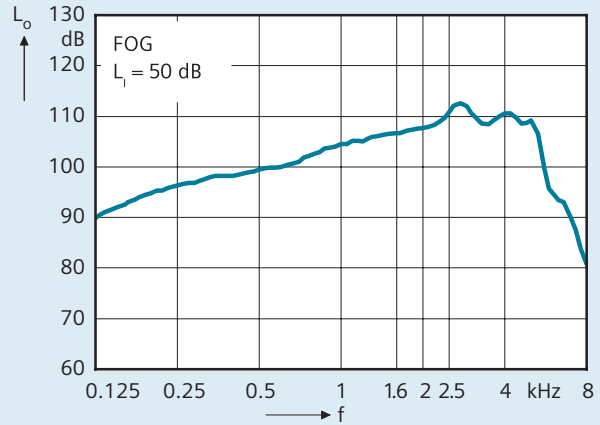
Output Sound Pressure Level/OSPL 90

IEC 118-0/A1



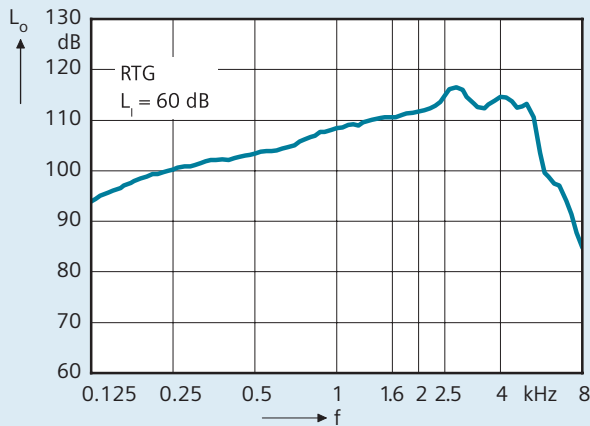
Maximum Gain

IEC 118-0/A1



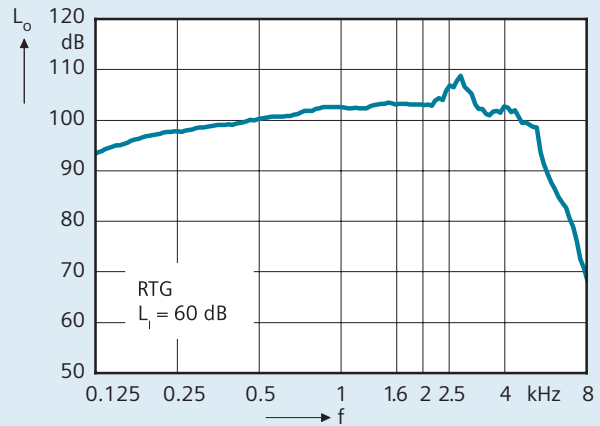
Basic Acoustic Response

IEC 118-0/A1



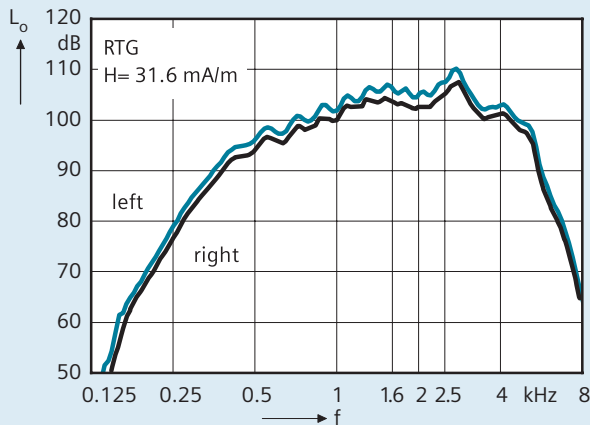
Frequency Response

ANSI S3.22-1996



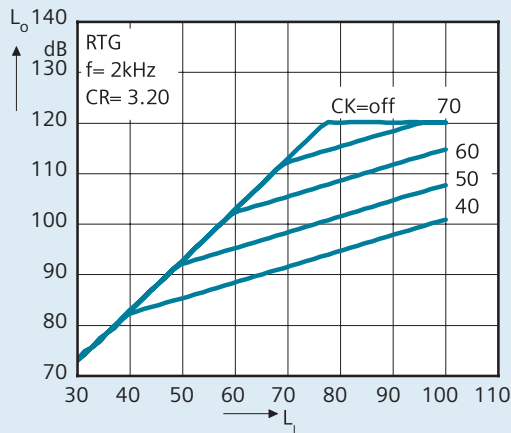
Inductive Response

ANSI S3.22-1996



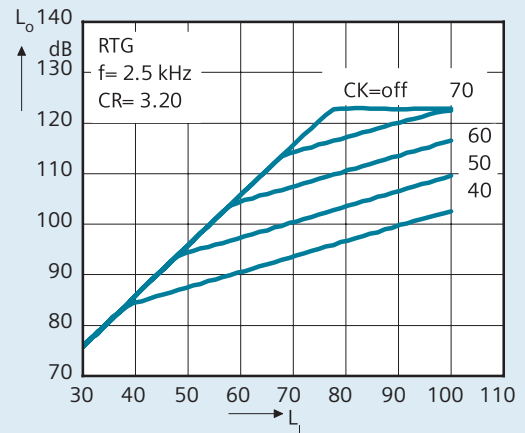
AGC-I Effect of CK-Control

ANSI S3.22-1996



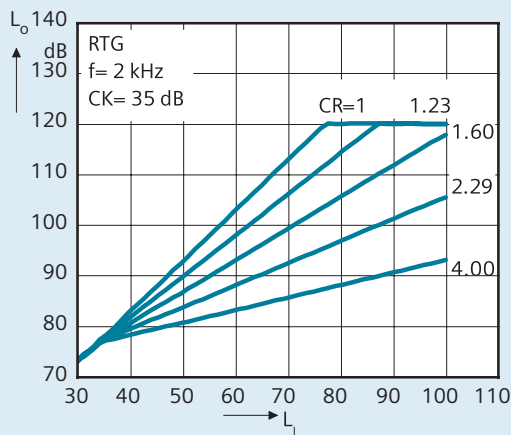
AGC-I Effect of CK-Control

IEC 118-7/A1



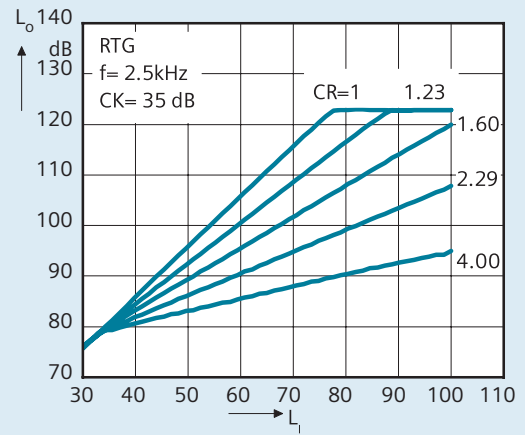
AGC-I Effect of CR-Control

ANSI S3.22-1996



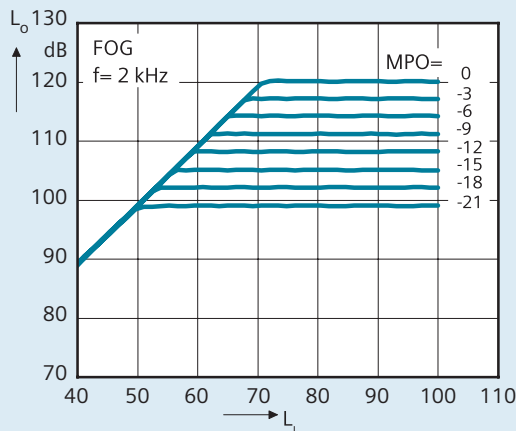
AGC-I Effect of CR-Control

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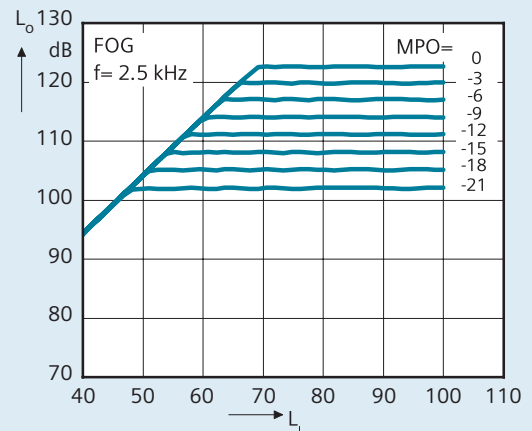
AGC-O Effect of MPO-Control

ANSI S3.22-1996

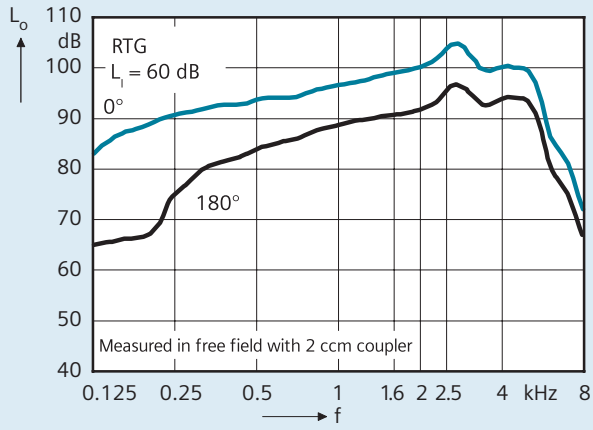


AGC-O Effect of MPO-Control

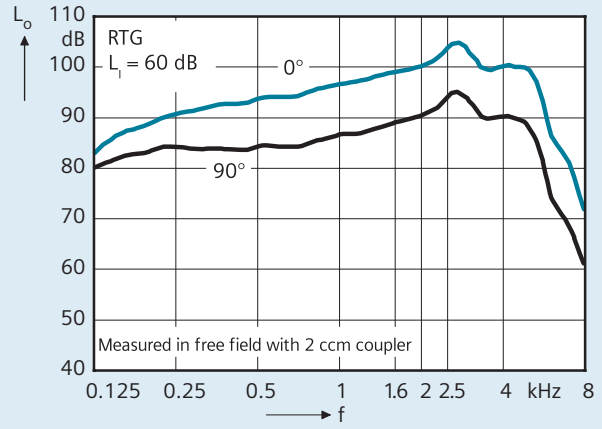
IEC 118-7/A1

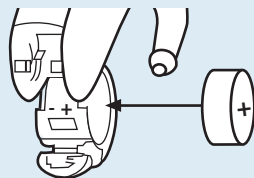


Frequency Response from Front and Rear



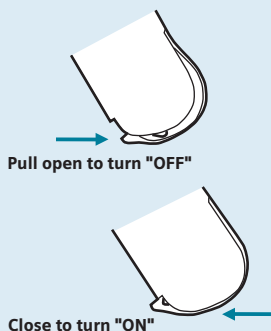
Frequency Response from Front and Side





Insert the Battery

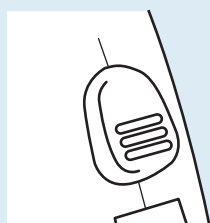
Open the battery compartment and place the battery so the "+" symbol on the battery coincides with the "+" marked on the battery compartment – battery type 13.



Turn the Hearing System ON and OFF

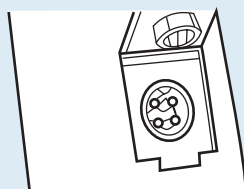
There are two ways to turn the ACURIS S ON and OFF. The first way is by using the battery compartment. When it is completely closed, ACURIS S is "ON." Opening the battery compartment to the first stop means that ACURIS S is "OFF."

The second way to switch the instrument ON and OFF is by using the program button. By pressing the program button for approx. 2 seconds, the hearing instrument can be turned ON and OFF.



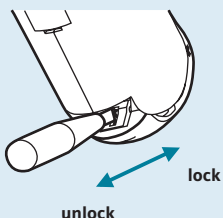
Program Change

ACURIS S can have up to 4 hearing programs, which can be selected with the program button or automatically by attaching the audio boot. Each time the program button is pressed, ACURIS S changes to the next program, which is confirmed with an audible signal indicator (beep). The number of beeps is identical to the selected program. Meaning when program "4" is selected, 4 beeps are heard.



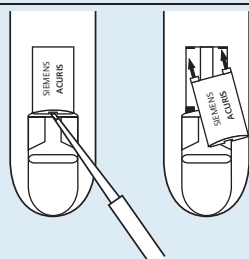
Programming Socket

The programming socket lies under a flap below the program button. With a suitable tool, open the flap. After the programming procedure is complete, close the flap by using your fingernail.



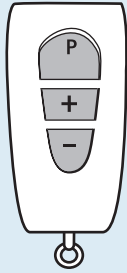
Battery Lock

ACURIS S is equipped with a battery compartment lock. To lock the battery compartment, open the compartment door to the first stop. Push the slide to the right with a suitable tool. To unlock the battery compartment, open the compartment door to the first stop. Push the slide to the left with a suitable tool.



Changing the Type Plate

To mark the left and right side of your ACURIS S instruments when fitting binaural, exchange the housing colored type plates on the inner curve of the instruments for blue (left) and red (right) ones. Use a suitable tool to lift and remove the type plate. Lock the two pins on the new type plate into the openings, and press gently into position with your finger.

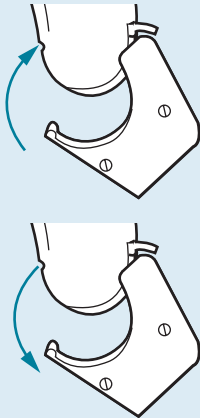


ePocket™

The ACURIS S hearing system supports the use of ePocket™, a bi-directional remote control with read out function.

ePocket can change the hearing programs and the volume of ACURIS S. The ePocket read out function will display the current program, volume level and battery status of the instrument(s).

ePocket includes a cover and clip.



Audio Boot

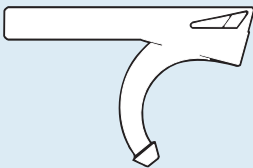
To attach an audio boot to ACURIS S, open the battery compartment to the first stop. Open the flap under the programming socket and hook the audio boot in from the front. Press the audio boot into place so that it attaches to the back and the curve of the audio boot presses against the bottom of the hearing system.

To remove the audio boot, pull it toward the front. Then unhook the audio boot and close the flap.



Earhook, Small

Optimal fitting for smaller ears.



Eyeglass Adapter

To fit the ACURIS S onto eyeglasses, a transparent eyeglass adapter is available.

Siemens Hearing Instruments, Inc. locations

United States Headquarters/Northeast Manufacturing Facility:

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South Manufacturing Facility: (770) 422-4540 or (800) 922-9998

West Manufacturing Facility: (562) 404-4531 or (800) 998-9787

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