

# Technical Data

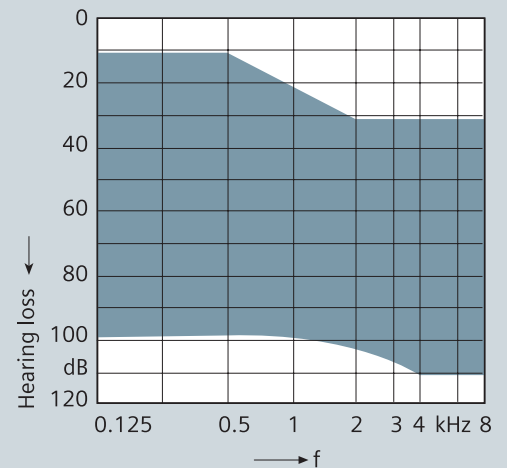
## CIELO 2 P



### Description

- Programmable BTE instruments with ePocket™ support and data logging functionality
- For moderate to severe hearing losses
- High performance directional microphone, automatic and multi-channel operation
- Automatic and adaptive feedback cancellation
- Automatic situation detection including music detection
- Adaptive noise reduction and speech enhancement in 6 channels
- Wind noise reduction
- 4 individual hearing programs for microphone, audio shoe and/or telecoil
- Nanocoated housing
- AutoPhone™ switchless telecoil
- Audio Input
- Volume control
- Battery compartment with lock and On/Off switch
- Push button for program selection with alert tones for program change
- Battery type 13
- Alerting tones for low battery voltage
- Professional and efficient fitting with the workflow oriented CONNEXX™ software

### Fitting Range



### Data Sheet

[www.siemens.com/hearing](http://www.siemens.com/hearing)

**SIEMENS**

# CIELO 2 P Technical Data

	2 ccm coupler		Ear simulator
	IEC 118-7/A1	ANSI S3.22-2003 IEC 60118-7:2005	IEC 118-0/A1
<b>Output Sound Pressure Level</b>			
at 1.6 kHz	125 dB	–	131 dB
Peak	131 dB	131 dB	138 dB
HFA <sup>1</sup> -OSPL 90	–	126 dB	–
<b>Gain (Input 50 dB)</b>			
Full-on Gain (FOG) at 1.6 kHz	60 dB	–	67 dB
Full-on Gain (Peak)	70 dB	70 dB	77 dB
HFA-FOG	–	61 dB	–
Reference Test Gain	50 dB	49 dB	57 dB
<b>Frequency Range</b>			
Low frequency limit	< 100 Hz	100 Hz	100 Hz
High frequency limit	6300 Hz	7100 Hz	7300 Hz
<b>Total Harmonic Distortion</b>			
500 Hz	2 %	2 %	2 %
800 Hz	1 %	1 %	1 %
1600 Hz	1 %	1 %	1 %
<b>Equivalent Input Noise</b>	16 dB	16 dB	16 dB
<b>Inductive Coil Sensitivity</b>			
MASL <sup>2</sup> (1mA/m)	90 dB	91 dB	97 dB
HFA SPLITS <sup>3</sup> (left/right)	–	106 dB/109 dB	–
RSETS <sup>4</sup> (left/right)	–	-3 dB/0 dB	–
<b>AGC-O (= -21 dB)</b>			
Attack time	–	5 ms	–
Release time	–	100 ms	–
<b>Battery-Type 13 Cell Zinc Air</b>			
Battery current	1.0 mA	1.0 mA	1.0 mA
Battery life time	~ 220 h	~ 220 h	~ 220 h
<b>IRIL<sup>5</sup> IEC 118-13</b> (bystander condition)			
800-960 MHz	-5 dB	–	–
1400-2000 MHz	< 0 dB	–	–
<b>AI-DI<sup>6</sup></b>	4.0 dB	–	–

Technical information for e2e wireless function:

Operating frequencies:  $f_{low} = 115$  kHz,  $f_{high} = 120$  kHz; Rated H-field strength (maximum):  $-11,5 \mu\text{A/m}$  at 3 meters.

<sup>1</sup>HFA= High Frequency Average; <sup>2</sup>MASL=Magneto Acoustical Sensitivity Level; <sup>3</sup>SPLITS=Coupler SPL for an Inductive Telephone Simulator;

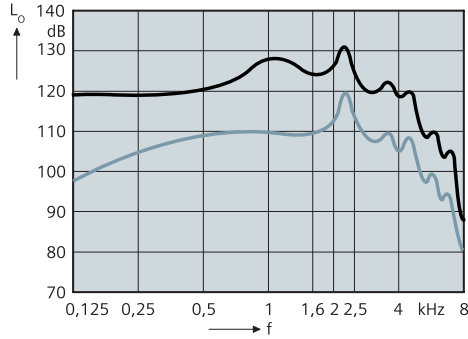
<sup>4</sup>RSETS=Relative Simulated Equivalent Telephone Sensitivity: instrument in linear setting, Input signal; Sinus Burst;

Frequency: 2500 Hz; Low Level: 33 dB; High Level: 60 dB; Interval: 250 ms; On; Time: 125 ms; <sup>5</sup>IRIL=Input Related Interference Level;

<sup>6</sup>AI-DI=Articulation Index – Weighted Directivity Index

# CIELO 2 P BTE Standard Basic Data

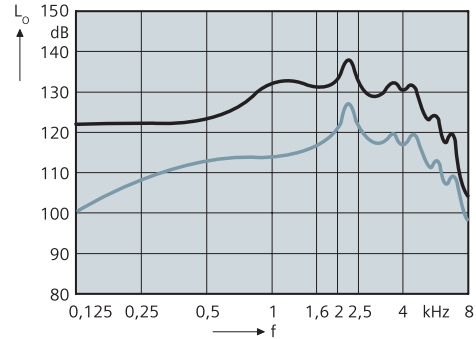
## 2 ccm coupler



Output Sound Pressure Level  
( $L_i = 90$  dB)  
IEC 118-7/A1;  
IEC 60118-7:2005;  
ANSI S3.22-2003

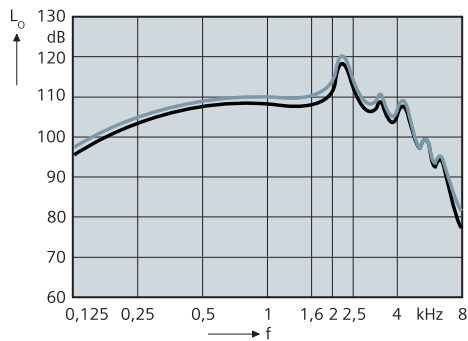
Full on Gain  
( $L_i = 50$  dB)  
IEC 118-7/A1;  
IEC 60118-7:2005;  
ANSI S3.22-2003

## Ear simulator



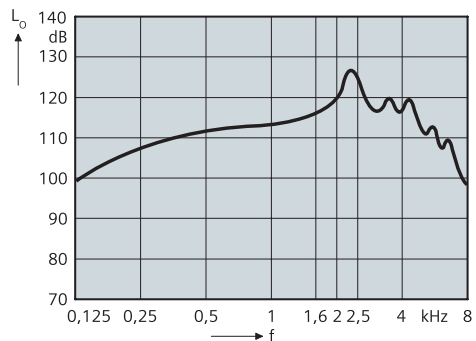
Output Sound Pressure Level  
( $L_i = 90$  dB)  
IEC 118-0/A1

Full on Gain  
( $L_i = 50$  dB)  
IEC 118-0/A1

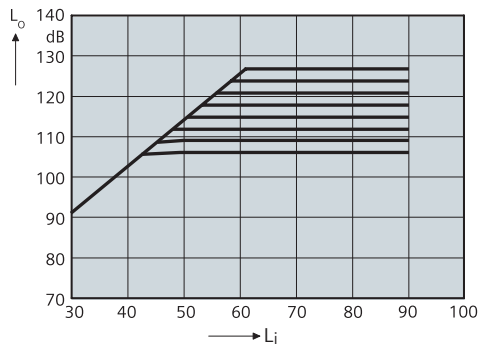


Frequency Response  
( $L_i = 60$  dB)  
IEC 60118-7:2005;  
ANSI S3.22-2003

Basic Frequency Response  
( $L_i = 60$  dB)  
IEC 118-7/A1

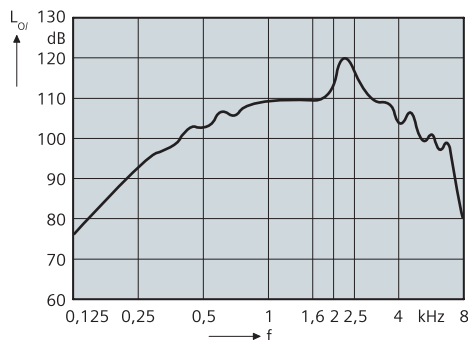


Basic Frequency Response ( $L_i = 60$  dB)  
IEC 118-0/A1

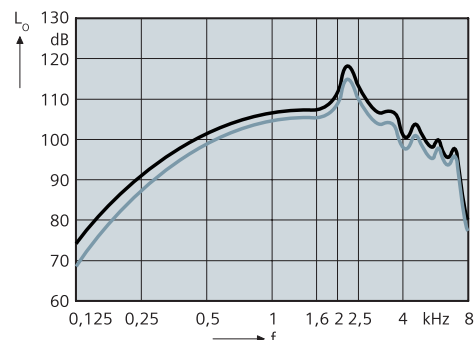


Effect of MPO  
(FOG,  $f=2$  kHz)  
IEC 60118-7:2005;  
ANSI S3.22-2003

## Inductive Response



Inductive Response  
( $H = 10$  mA/m)  
IEC 118-7/A1;  
IEC 60118-7:2005;



SPLITS curve right  
( $H = 31.6$  mA/m)  
ANSI S3.22-2003

SPLITS curve left  
( $H = 31.6$  mA/m)  
ANSI S3.22-2003

# CIELO 2 P

## BTE Instrument-Order number, Life Tube

- 101 737 33 beige
- 101 737 34 granite
- 101 737 35 black
- 102 938 07 grey
- 102 938 08 brown
- 102 938 09 silver
- 101 739 03 pearl white
- 102 938 18 transparent
- 102 938 19 translucent orange
- 102 938 20 translucent pink
- 102 938 21 translucent green
- 102 938 22 translucent blue
- 102 938 23 translucent purple
- 102 938 24 light pink
- 102 938 25 light blue



## Accessories

- ePocket, remote control  
Order number: 087 848 16
- Type plate set CIELO 2 P  
Order number: 101 737 99
- Small earhook  
Order number: 100 548 18
- Eyeglass adapter  
Order number: 100 548 19
- Audio shoe transparent  
Order number: 100 548 30

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without prior notice.

The required features should therefore be specified in each individual case at the time of conclusion of the respective contract.