

EC Type Examination Certificate

This is to certify that:

Phonak Communications AG
c/o Phonak AG
Laenggasse 17
Murten
CH-3280
Switzerland

Holds Certificate Number:

CE 518878

In respect of:

Hearing protectors: level-dependent ear-plugs to EN 352-7:2002. See continuation sheets for product details.

On the basis of our examination, under the requirements of Council Directive 89/686/EEC "Personal Protective Equipment" Article 10, EC Type-Examination

For and on behalf of BSI, a Notified Body for the above Directive (Notified Body Number 0086):



Pietro Foschi - Strategic Delivery Director

First Issued: 10/05/2007

Latest Issue: 25/03/2015

EC Type Examination Certificate

No. CE 518878

Product Specification

Serenity DPC range

Models: **Serenity DP**
 Serenity DPC Phone
 Serenity DPC Radio
 Primero DPC
 FreeCom 7000
 FreeCom 7100

Product type: Hearing protectors, level-dependent ear plugs.

Technical specifications: EN 352-2:2002 Hearing protectors. Ear-plugs.
 EN 352-7:2002 Hearing protectors. Level-dependent ear-plugs.

Classification: Custom moulded ear-plugs.

Description: The Serenity DPC models and the Primero DPC are a range of dynamic level-dependent ear-plugs designed for protection against noise associated with industrial environments. All models are available as custom moulded ear-plugs or as ear-plugs that incorporate a generic shell fitted with either foam or silicone ear tips. The overall range includes versions that can be used with a communication system, these versions including a model incorporating a boom microphone and a model incorporating an in-ear microphone. Any Certification requirements of the communication systems are not referenced on this Certificate.

Model	System Details
Serenity DP	Basic system.
Serenity DPC Phone	For use with mobile phones.
Serenity DPC Radio	For use with portable radios - boom microphone.
Primero DPC	For use with portable radios - in-ear microphone.
FreeCom 7000	For use with aviation radios - boom microphone.
FreeCom 7100	For use with aviation radios - boom microphone with intercom volume control.

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Product Specification (continued)

Moulded ear-plugs version:

Sound attenuation values - in passive mode

1/3 Octave Frequency Band (Hz)	125	250	500	1K	2K	4K	8K
Mean attenuation (dB)	21.9	21.9	21.1	26.7	32.7	29.8	31.7
Standard deviation	5.2	5.2	5.8	4.0	3.5	3.4	4.7
Assumed protection level (dB)	16.7	16.7	15.3	22.7	29.2	26.4	27.0

Model/Combination	Attenuation values	Criterion level
Moulded ear-plugs	SNR 24 dB	
H	27 dB	108.42
M	20 dB	103.80
L	18 dB	98.85

Generic shell - Foam ear tip variant

Sound attenuation values – in passive mode

1/3 Octave Frequency Band (Hz)	125	250	500	1K	2K	4K	8K
Mean attenuation (dB)	25.0	23.4	23.1	26.4	29.7	28.3	31.6
Standard deviation	3.9	4.7	4.3	4.9	2.2	2.7	3.8
Assumed protection level (dB)	21.1	18.7	18.8	21.5	27.5	25.6	27.8

Model/Combination	Attenuation values	Criterion level
Ear-plug with foam tips	SNR 25 dB	
H	26 dB	102
M	22 dB	104
L	20 dB	106

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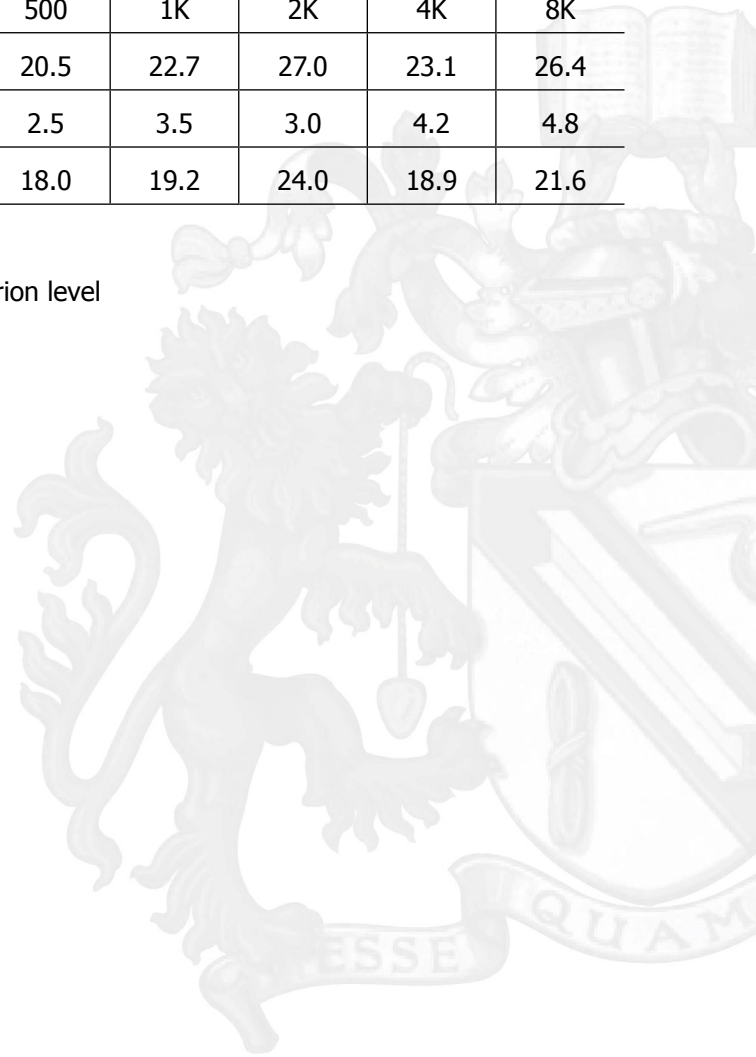
Product Specification (continued)

Generic shell - Silicone ear tip variant

Sound attenuation values – in passive mode

1/3 Octave Frequency Band (Hz)	125	250	500	1K	2K	4K	8K
Mean attenuation (dB)	23.4	21.4	20.5	22.7	27.0	23.1	26.4
Standard deviation	3.6	4.2	2.5	3.5	3.0	4.2	4.8
Assumed protection level (dB)	19.8	17.2	18.0	19.2	24.0	18.9	21.6

Model/Combination	Attenuation values	Criterion level
Ear-plug with foam tips	SNR 22 dB	
	H 21 dB	102
	M 19 dB	104.5
	L 19 dB	101.5



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Certificate Administration Details

Technical File Reference: Level Dependant Earplugs; Technical File Serenity DPC Range.

Certificate Amendment Record

Issue date	Comments	BSI Internal Project No.
10May 2007	First issue of model range Serenity DPC	0086:07:2005
September 2008	Correction of EN 352 classification to -7 and addition of year of publication of the EN.	-
June 2009	Addition of version Primero DPC.	0086:09:7388952
February 2010	Addition of generic shell versions with foam or silicone tips.	0086:10:7451684
November 2011	Addition of commercial name FreeCom 7000.	0086:11:7761179
March 2015	Addition of variant FreeCom 7100.	0086:15:8283762

Note: The Certificate holder is responsible for keeping the Notified Body advised of changes to any aspect of the overall process used in the manufacture of the product.

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