INSTRUCTION MANUAL



Nor283

Dodecahedron Loudspeaker

Norsonic

Nor283 Instruction Manual – April 2024
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If you wish to communicate with us, our address is:

Norsonic AS, Gunnersbråtan 2, N-3409 Tranby Norway
+47 32 85 89 00 | www.norsonic.com | info@norsonic.com

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Nor283

Dodecahedron Loudspeaker

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Dodecahedron Loudspeaker Nor283

A multitude of applications within the field of building acoustics requires the use of isotropic sound sources. The loudspeaker Nor283 has been designed to comply with these requirements and satisfies the ISO 10140-5 Annex D (Laboratory measurements), ISO 16283-1 Annex A (Field measurements) and ISO 3382-1.

The speaker come with a tripod ensuring correct placement so that unwanted reflections and structural transmissions are kept at a minimum.

The rugged speaker cabinets are made of high density polyethylene and the speaker elements themselves are protected by steel grids to further enhance the concept.



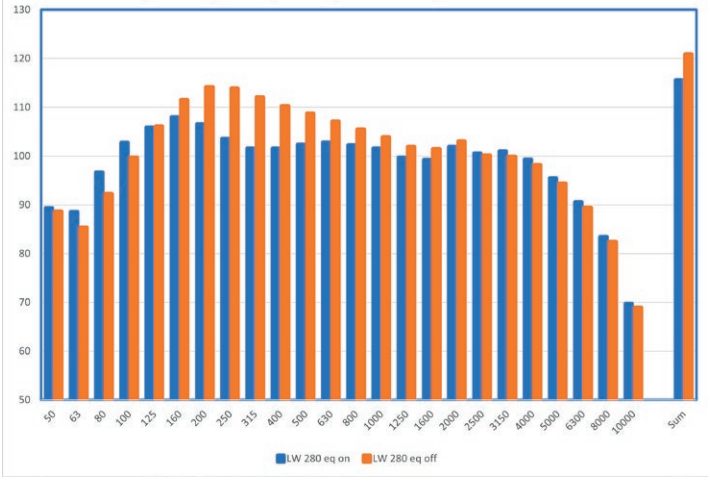
Connecting to a Power Amplifier

The Nor283 as been designed for continuous operation for more than one hour at full power.

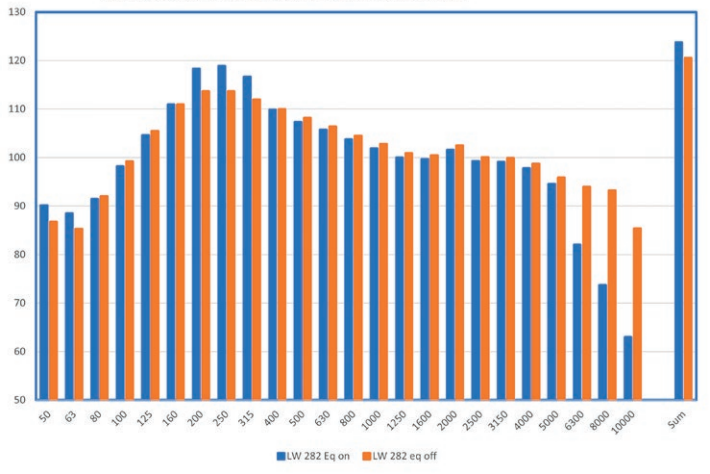
The speaker input socket accepts Speakon NL4FC connectors – see overleaf for more on this.

A mounting rod (Ø=25mm) makes tripod mounting easy and safe.

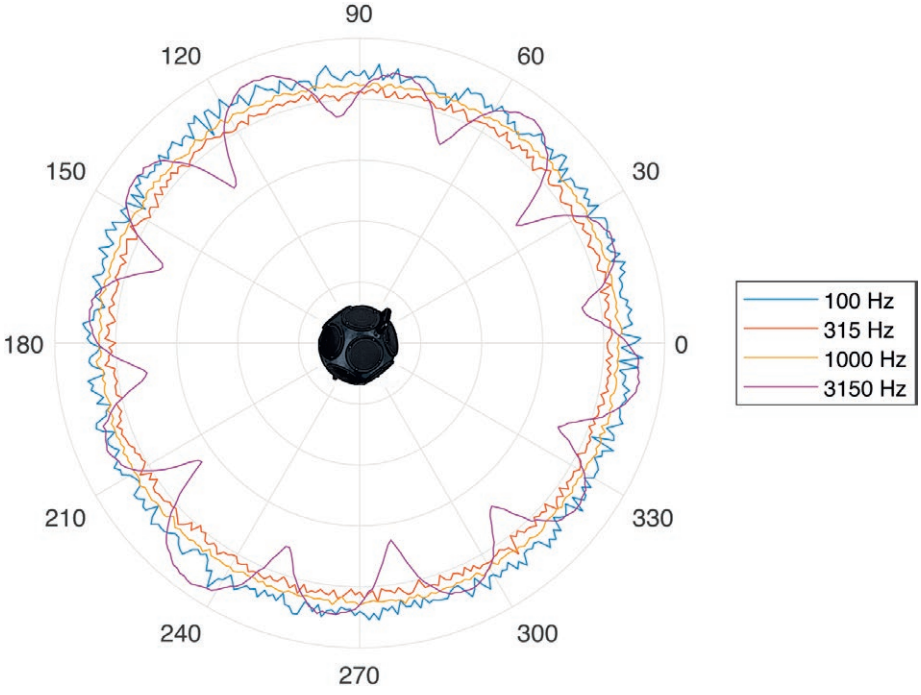
NOTE! The Nor283 is designed to be used with Nor280 or Nor282 Power Amplifiers only. Using other amplifiers may damage the speakers and will void the warranty.



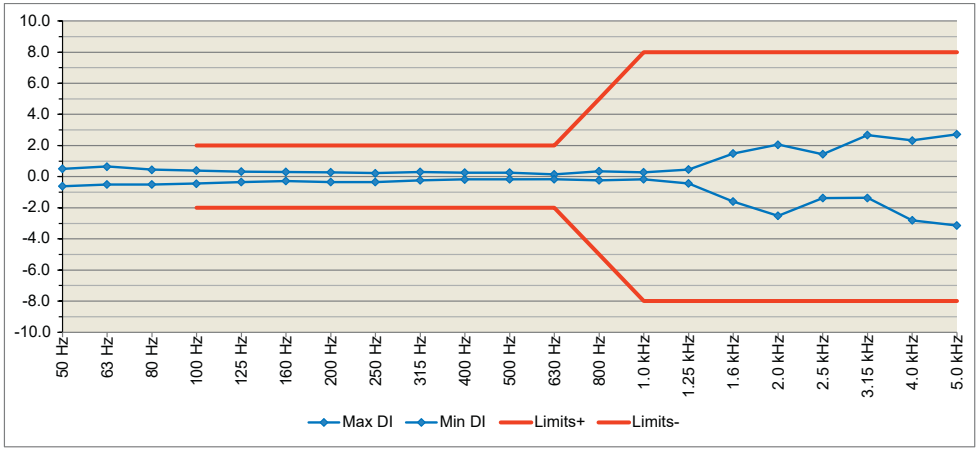
Typical sound power level vs. frequency of the loudspeaker Nor283 when used with the pink noise source and equalizer included in the power amplifier Nor280.



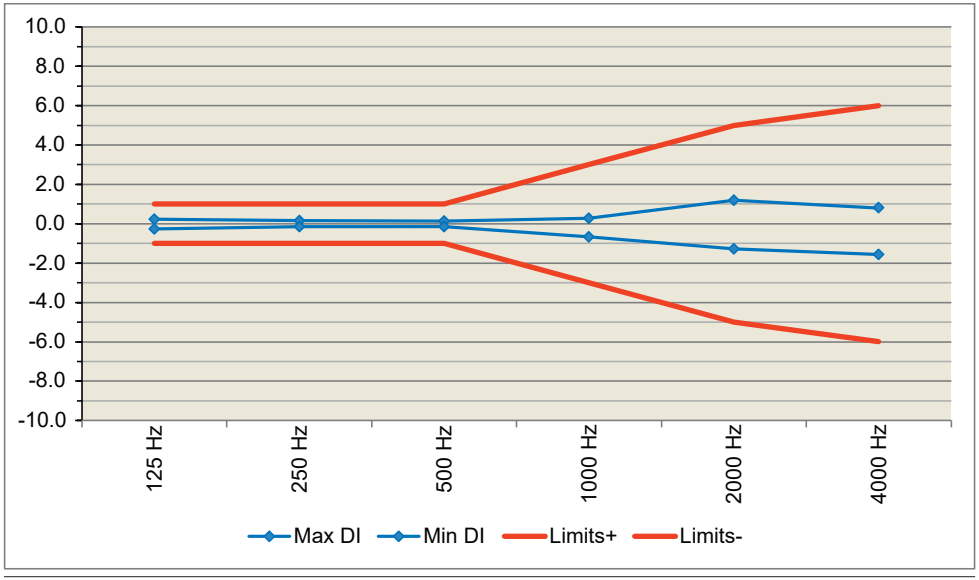
Typical sound power level vs. frequency of the loudspeaker Nor283 when used with the pink noise source and equalizer included in the power amplifier Nor282.



Sound power in different directions for Nor283. The measurement is done in a horizontal plane through the centre of the loudspeaker for the frequencies 100 Hz, 315 Hz, 1 kHz and 3,15 kHz. Each concentric circumference represents a difference of 10 dB with its adjacent ones.



Maximum and minimum directivity indices in different directions according to the requirements in ISO 10140-2:2021 and ISO 16283-1:2014 compared to the tolerance limits.



Maximum and minimum directivity indices in different directions according to the requirements in ISO 3382-1 compared to the tolerance limits.

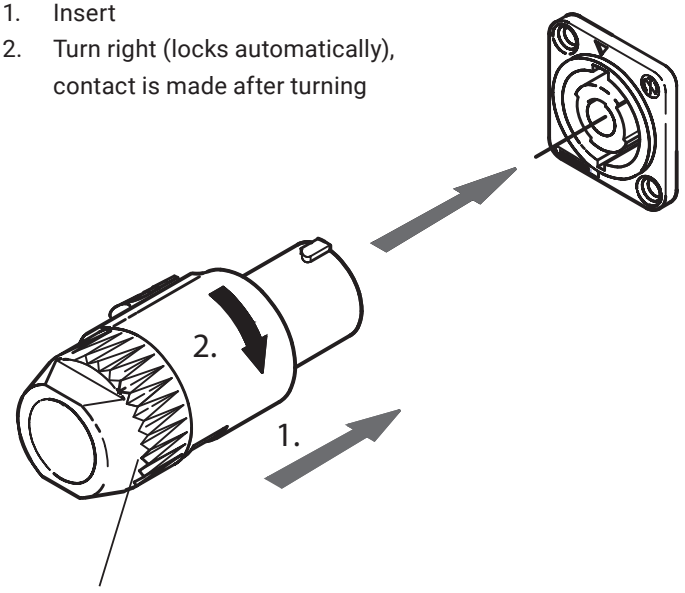
The Nor283 Quick Lock connector…

If you need to assemble cable and the Quick Lock connector, connect as follows:

1+ and 2+ are to be connected together.
1– and 2– are to be connected together.

Insert...

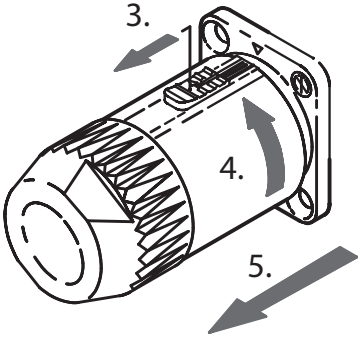
1. Insert
2. Turn right (locks automatically), contact is made after turning



Strain relief bushing – don't loosen!

Remove...

3. Pull lever
4. Turn left
5. Pull plug



Specifications

Physical design: Dodecahedron

Sound power output:
Using the Nor282 with pink noise, and equalization:
123 dB (Lin)

Using the Nor280 with pink noise, and equalization:
120 dB (Lin)

Speakers: 12×4”

Power (broadband):
AES power handling: 350 W
Max. power handling: 720 W

Impedance: 2.7 Ω

Diameter: 270 mm

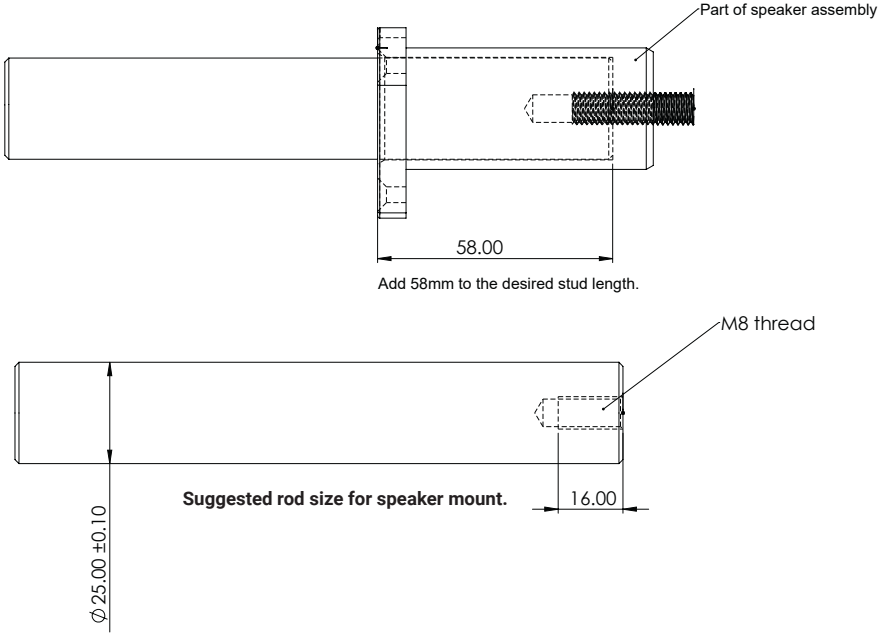
Weight: 5.3 kg

Tripod mounting-rod: 25 mm

Accessories incl.:
5 m assembled cable, if ordered with Nor280 or Nor282
Tripod.

Mounting speaker on a tripod

- The standard mount consist of a 25 mm rod that is is screwed onto the 3/8” “photo screw” on the tripod.
- The speaker may also be mounted upside down using a 25mm rod with M8 threads. See drawing.



Norsonic AS
Gunnersbråtan 2
N-3409 Tranby
Norway
Tel: +47 3285 8900
info@norsonic.com
www.norsonic.com

Declaration of Conformity

We, Norsonic AS, Gunnersbråtan 2, Tranby, Norway, declare under our sole responsibility that the product:

Nor283 Dodecahedron Loudspeaker

to which this declaration relates, is in conformity with the following standards or other normative documents:

Nor283: Fulfils ISO 10140-5:2021 Annex D:Laboratory measurements), ISO 16283-1:2014 Annex A (Field measurements) and the ISO 3382:2008 Annex A (Reverberation Time measurements) when used with power amplifier Nor280 or Nor282.

RoHS: Directive 2011/65/EU, 2015/863/EU

WEEE: Directive 2012/19/EU

This product has been manufactured in compliance with the provisions of the relevant internal Norsonic production standards. All our products are tested individually before they leave the factory.

This Declaration of Conformity does not affect our warranty obligations.

Tranby, March 2024

Jens Petter Ringvold
Cheif Engineer



Norsonic

Gunnersbråtan 2
N-3409 Tranby
Norway
Tel: +47 32 85 89 00
info@norsonic.com
www.norsonic.com

Norsonic AS supplies a complete range of instrumentation for acoustics – from sound calibrators, microphones and preamplifiers; via small handheld sound level meters to advanced, yet portable, real time analysers, but also spectrum shapers, building acoustics analysers and complete community, industry and airport noise monitoring systems. Contact your local representative or the factory for information on our complete range of instrumentation.