



## DL-A 10-165/T-EN54 SKD-W

- WAGO 221 connector
- vandal-proof
- BS 5839

EN54

CE
26

EN 54-24:2008
**Ref. Nr.**: 004-13
**ID-Code**: SAA-LS04
1438-CPR-0232

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68307 Mannheim, Germany

CE-Symbol gemäß Richtlinie 93/68EWG

The 10W powered speaker is equipped with a 165mm full-range loudspeaker chassis and a 100V transformer with 4 power adjustments. The powder-coated metal version with a perforated grid cover in RAL 9010 guarantees lasting stability. For additional reliability, the speaker chassis is impregnated against wetness. Fast and easy installation by WAGO 221 connector.

Flat and elegant design for inconspicuous installation that does not require a disturbing "collar" thanks to a metal back panel. The connecting cables can be supplied by rubber grommets at the side and also at the rear of the speaker housing.

The speaker is also secured with protection class IP 21C against the security risks of environmental influences.

The speaker is also compliant with the British Standard BS 5839, Part 8.

Quick and easy mounting by fixing screws to the metal back plate.
Custom finish of the speaker in 4-digit RAL- or NCS-colour available at extra cost.

| | |
|---|---|
| Product | DL-A 10-165/T-EN54 SKD-W |
| Article No | 20102195-W |

## Acoustics

| | |
|---|---|
| Power | 10/6/3/1,5 W |
| Impedance (100V) | 1000/1667/3333/6667 ohm |
| Speaker ø | 165 mm |
| Frequency Range | 290 - 23.400 Hz |
| Frequency Response | 230 - 24.000 Hz |
| SPL 1W/1m, peak | 102,2 dB |
| SPL 1W/4m, peak | 90,2 dB |
| SPL Pmax/4m, peak | 100,2 dB |
| SPL IEC268-5, 1W/1m | 93,0 dB |
| SPL IEC268-5, Pmax/1m | 103,0 dB |
| Sensitivity EN54-24, 1W/1m | 93,0 dB |
| Sensitivity EN54-24, 1W/4m | 81,0 dB |
| Dispersion -6dB, 500Hz | h/v 360° |
| Dispersion -6dB, 1KHz | h/v 210° |
| Dispersion -6dB, 2KHz | h/v 95° |
| Dispersion -6dB, 4KHz | h/v 50° |

## Connections and Housing

| | |
|---|---|
| Connector | WAGO 221 connector |
| Terminal Diameter | 3,2 mm |
| Maximum Cable Passage | 8 mm² |
| Max. cable cross section loop | 2x2 mm² |
| Temperature Range | -10 / +55 C° |
| Type A/B | A |
| Dimensions | 170x75 mm |
| Weight (net) | 1,15 kg |
| Housing | metal |
| Colour | RAL 9010 |
| Mounting | Screws |
| IP Rating | IP21 |

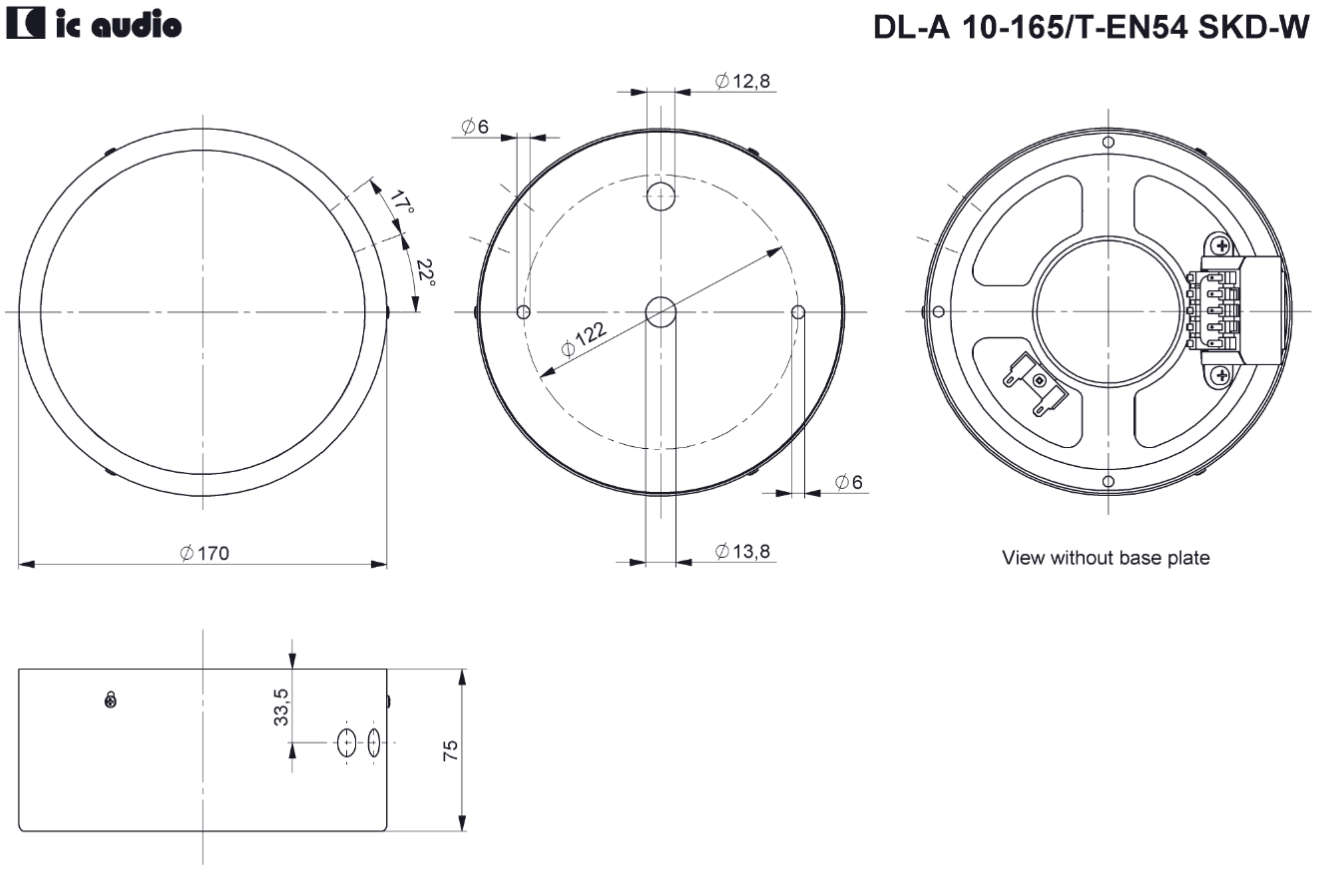
## Certification

| | |
|---|---|
| Ref. Nr. | 004-13 |
| ID-Code | SAA-LS04 |
| Certificate Number | 1438-CPR-0232 |

## Product Attributes



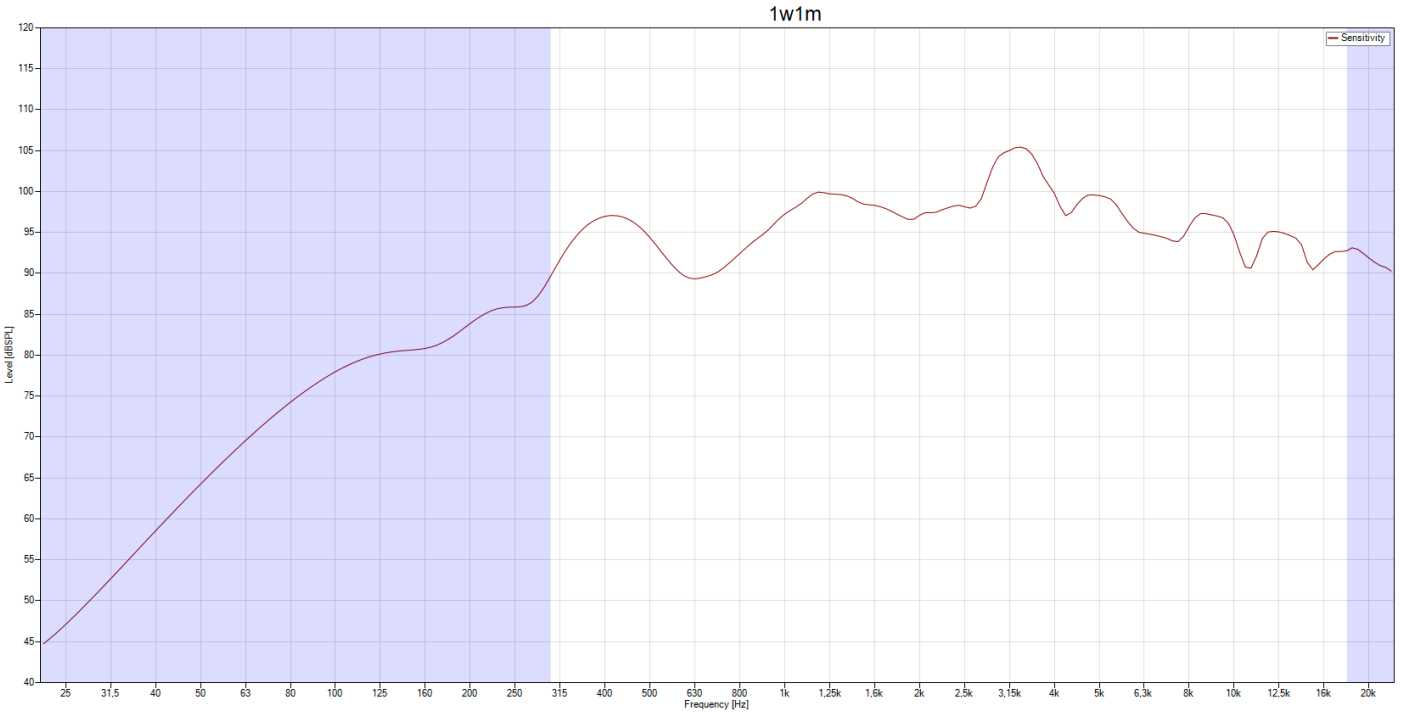
## Technical Drawing



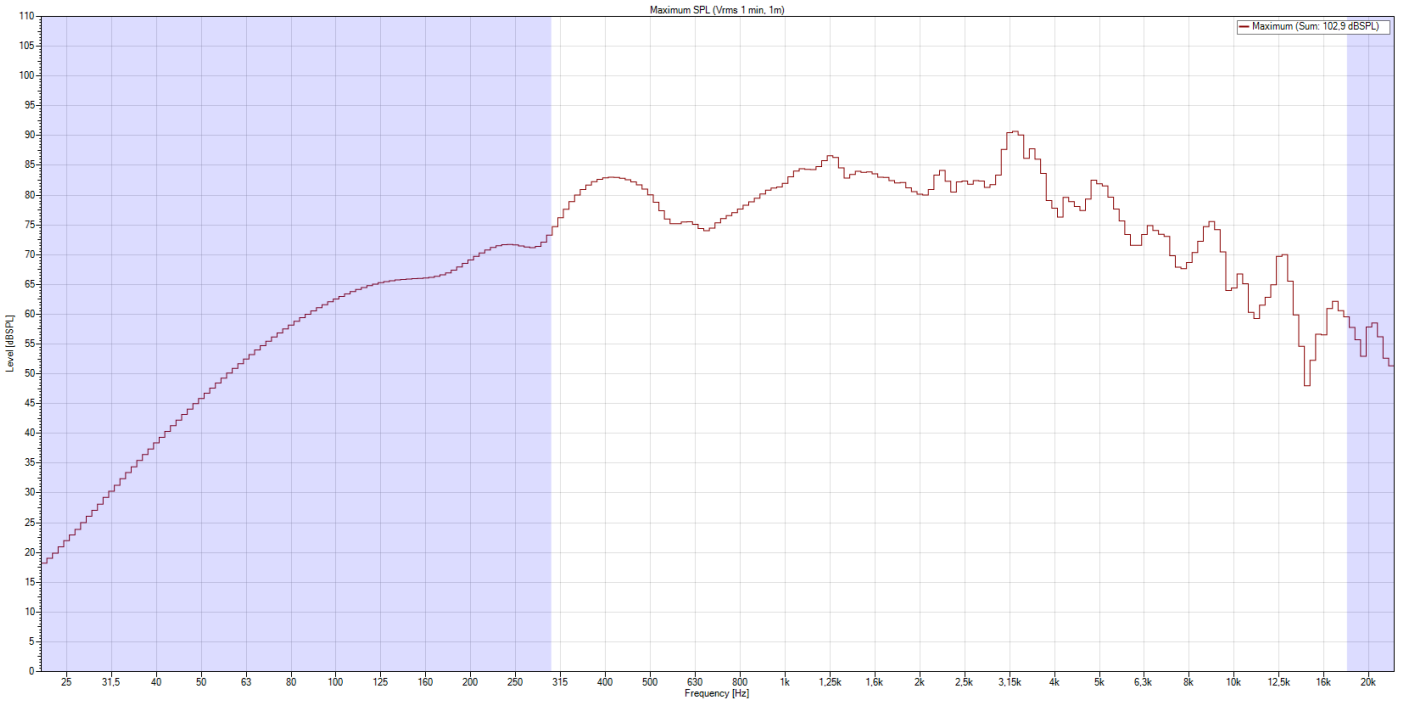

all dimensions are in mm

## Frequency Response Diagram

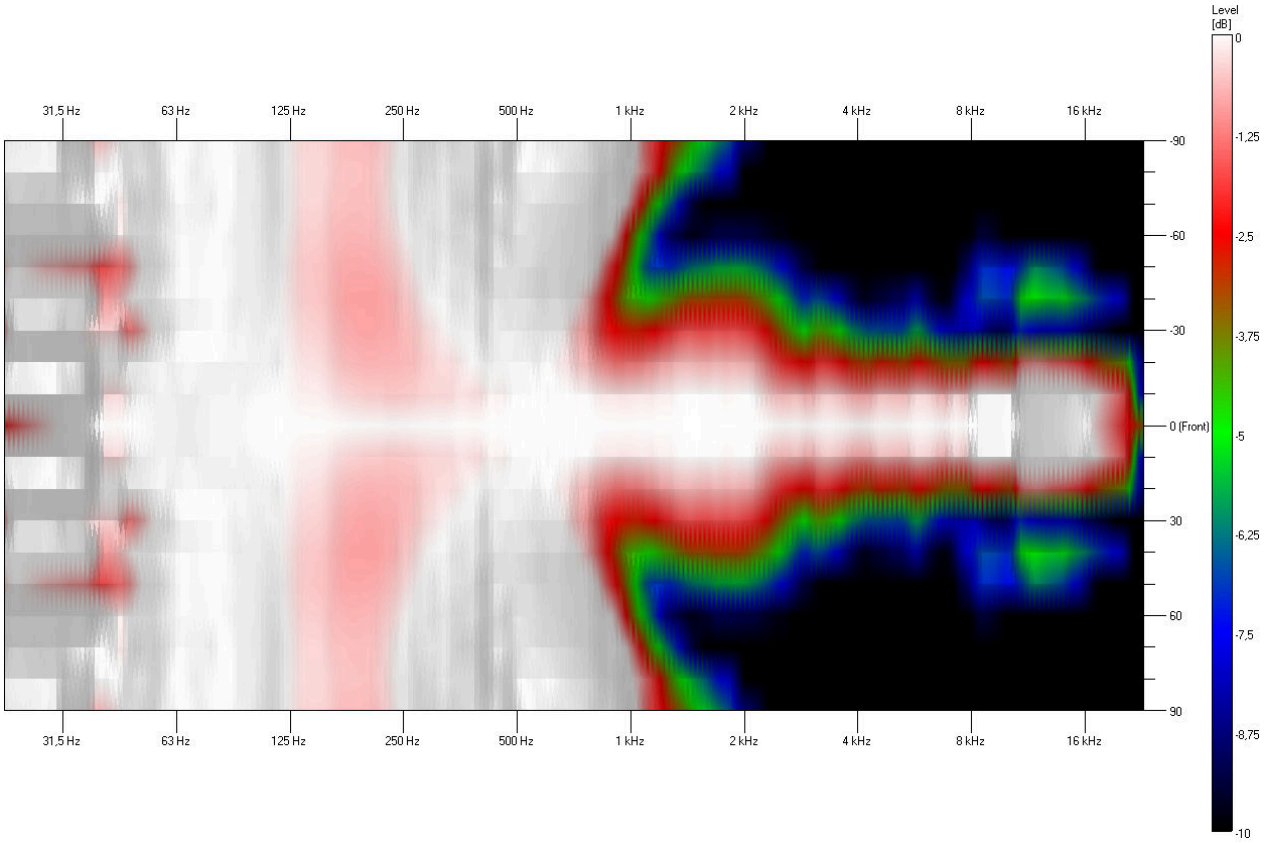
Sensitivity




SPL Max

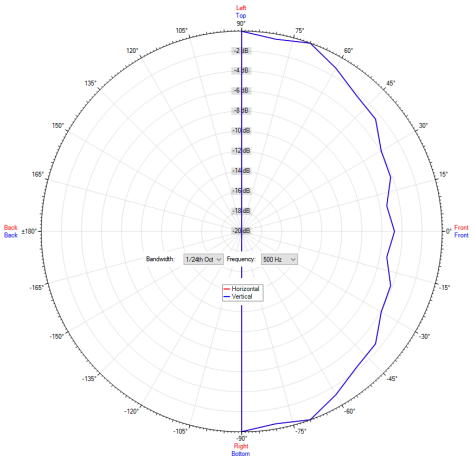


## Isobar

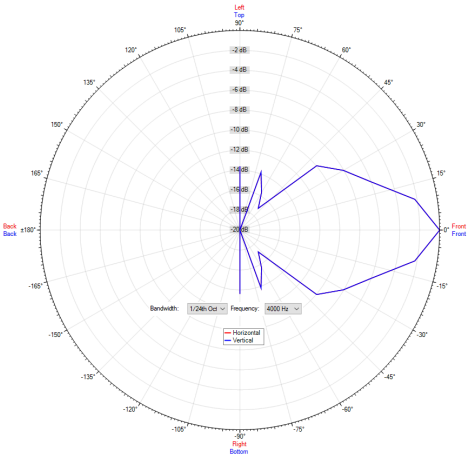

31,5 Hz
63 Hz
125 Hz
250 Hz
500 Hz
1 kHz
2 kHz
4 kHz
8 kHz
16 kHz
-90
-60
-30
0 (Front)
30
60
90
Level [dB]
0
-1,25
-2,5
-3,75
-5
-6,25
-7,5
-8,75
-10

## Polar Diagram

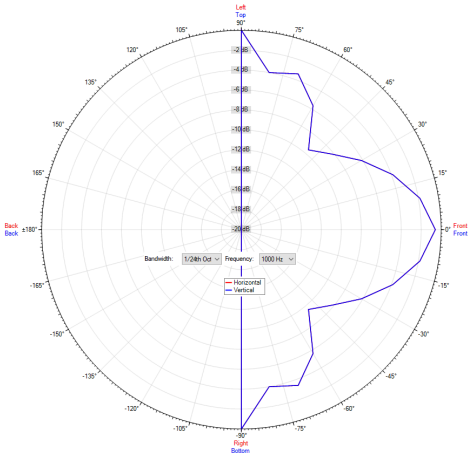
### Polar Diagram 500Hz



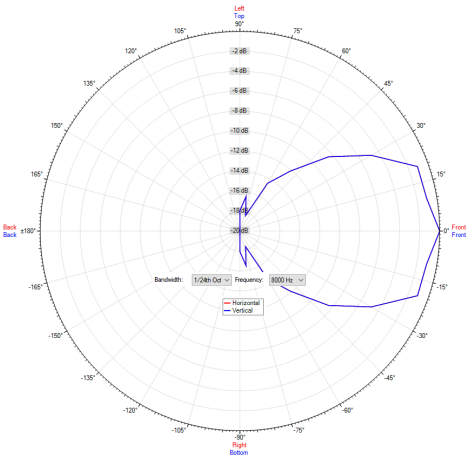

### Polar Diagram 4000Hz



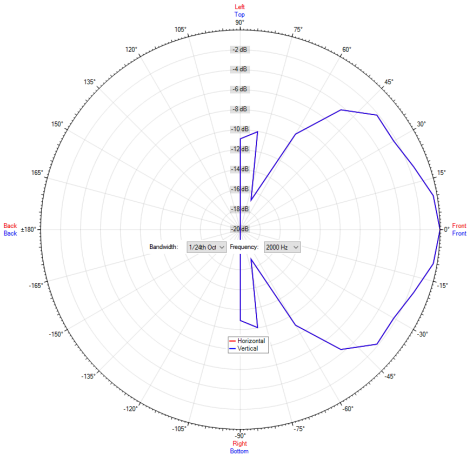

### Polar Diagram 1000Hz




### Polar Diagram 8000Hz




### Polar Diagram 2000Hz



ic audio loudspeakers are tested and classified according to the IEC standard 60529 (degree of protection by enclosure) against the penetration of foreign objects and moisture. The classification is conforming to standards through characterization with a fixed code. This code consists of the letters IP (International Protection) followed by two digits. The first digit indicates the degree of protection against dust and the second digit the degree of protection against water. Please note that the testing of the products has been carried out in laboratory conditions which are not always 100% comparable with the conditions of different installation environments. This protection can be reduced due to normal wear and tear depending on the installation environment.

RoHS compliant (2011/65/EU)

The IP rating specified is based on ic audio test results, not on CNBOP-PIB test results. Certification only verifies the minimum requirements for EN54-24 compliance.

**Article No:** 20102195-W
**Packing Unit:** 12