

DU 31

TWO WAY FLUSH MOUNT SPEAKER



MAIN APPLICATIONS

- High intelligibility Speech and Background music
- Schools
- Shopping malls
- Hospital
- Museums
- Hotels
- Office building

DESCRIPTION

The DU 31 and DU 31AT are a two way wall speaker with flexible design suitable for paging and background music for several type of installations. The DU 100X incorporates a 89 mm (3.5") loudspeaker and a piezoelectric 25 mm (1") tweeter to ensure clarity and proper sound dispersion over a wide range of coverage.

It is equipped with a line transformer that enables direct connection to constant voltage systems at 25 V, 70 V or 100 V.

When connected to a 100 V line, its power can be selected among the values 8 W, 4 W, 2 W for the DU 31 through the selection 5 inputs wire, and 8 W, 4 W, 2 W, 1 W or 0.5 W for the DU 31AT through a rotary switch (thanks to internal transformer taps).

A 25 V socket makes it possible to connect multiple speakers in parallel to a constant impedance line.

The accessory A 1331 (not included) is the rear cover for DU 31 / DU 31AT, include rubber grommet, footpad and plastic support for desk-top use, plastic flag support for wall surface mount (single or dual).

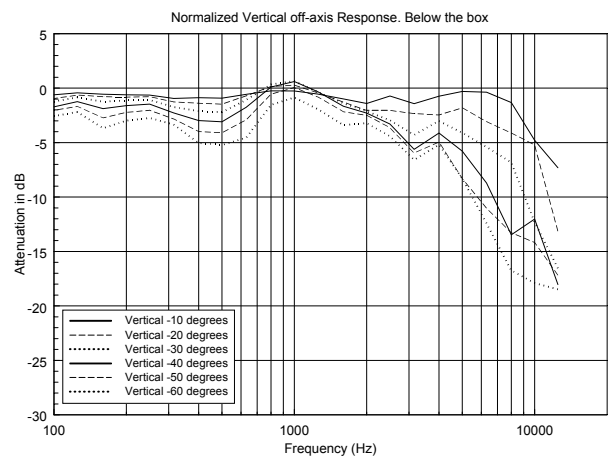
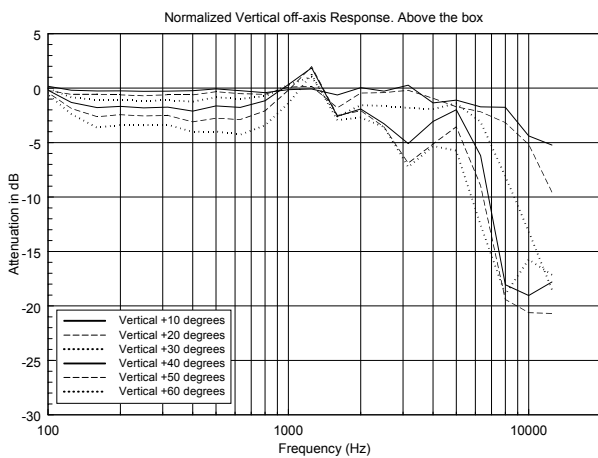
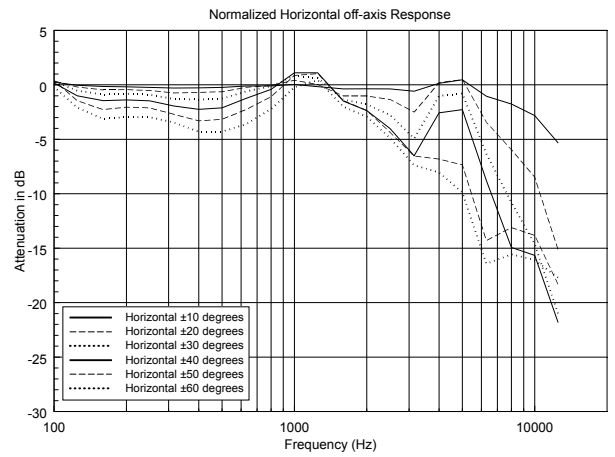
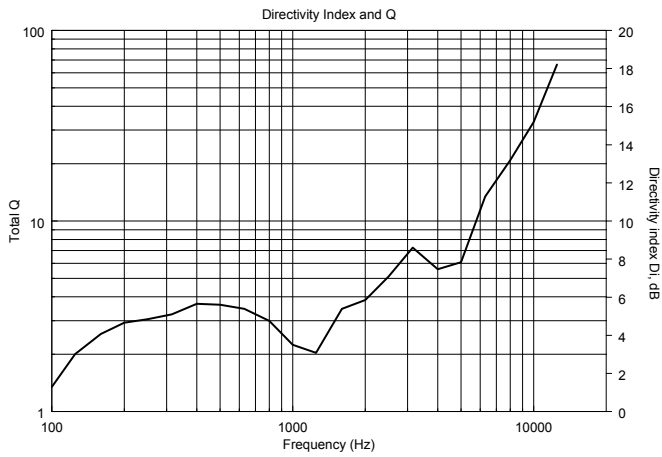
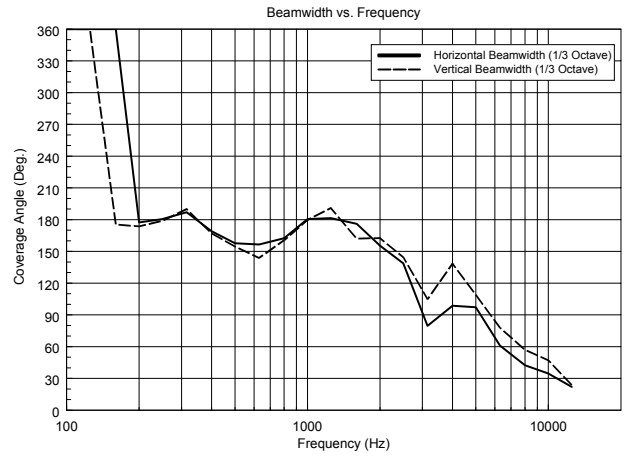
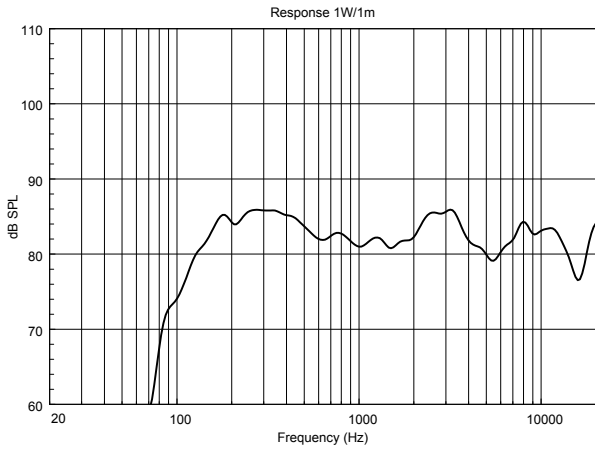
MAIN FEATURES

- Woofer 3.5" wide-band
- 1" coaxial tweeter
- 8/ 16 Watt (RMS/Music Power)
- 100 Hz ÷ 17 kHz
- 91 dB (1 m / POWER MAX) max. SPL
- Incl. 100V transformer multitap
- Power rotary switch in the DU 31AT
- Easy to install
- Simple power settings

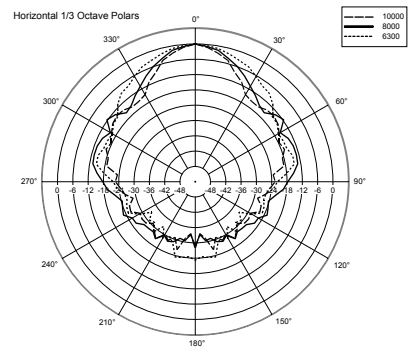
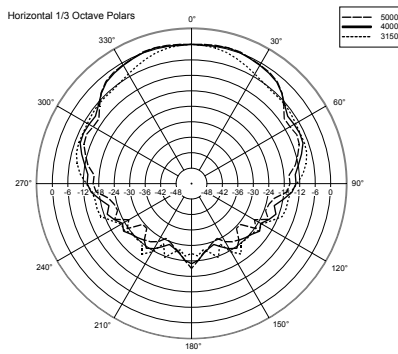
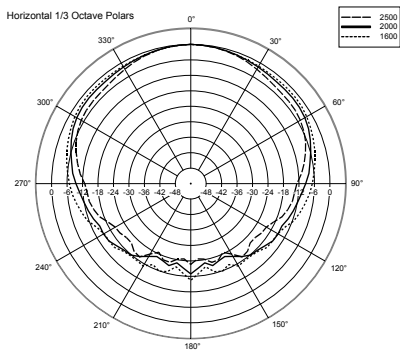
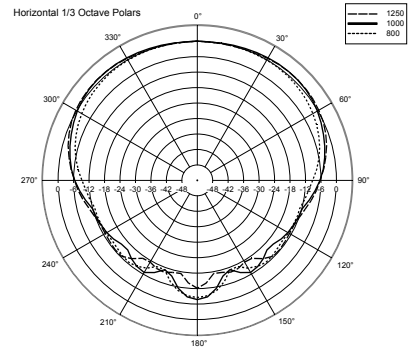
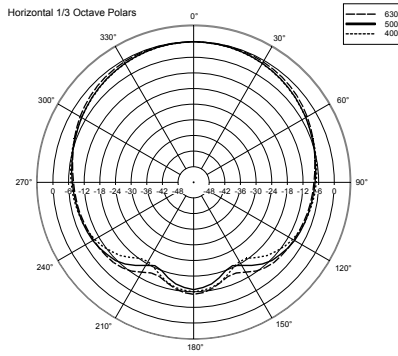
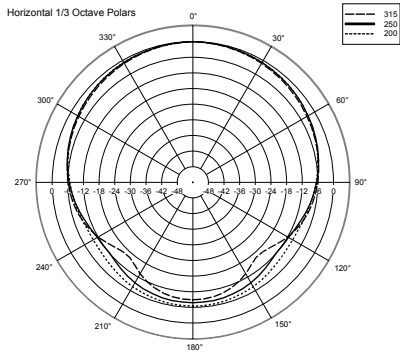
SPECIFICATIONS

Loudspeaker	3.5" woofer 1" tweeter
Power (on 8 Ohm load)	8 / 16 W (RMS / Music power)
Power	8 W - 4 W - 2 W (100V)
Sensitivity	82 dB (1 W / 1 m)
Mx. SPL	91 dB(A) (1 m / POWER MAX)
Frequency Response	200 Hz - 17 kHz
Angle of coverage	180° / 150° / 80° @ 1 / 2 / 4 kHz (hor.)
Connector	5 pin terminal strip
Body colour	White Ivory RAL 9002
Main body material	Auto-extinguishing high-density polystyrene
Grill material	Steel
Dimensions	151 mm x 158 mm x 55 mm
Installation	Commercial Flush mount box
Max wall distance	12 mm
Net weight	0.67 kg
Operating temperature	-25° to +55°
Relative humidity	90% non condensing

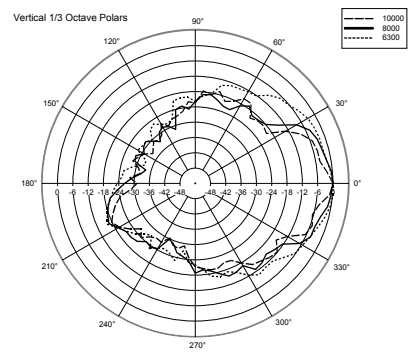
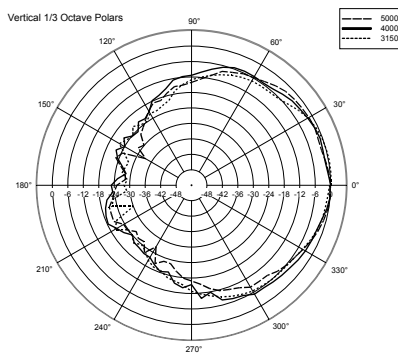
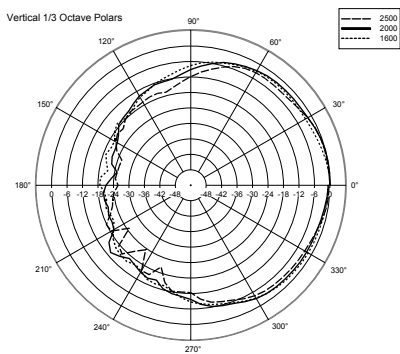
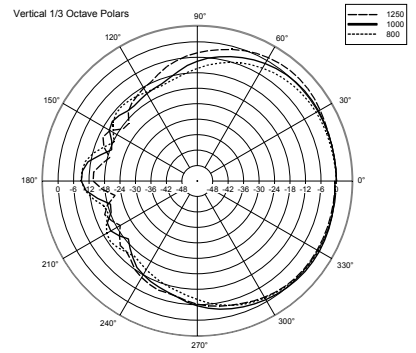
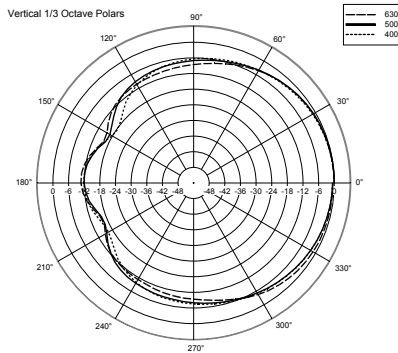
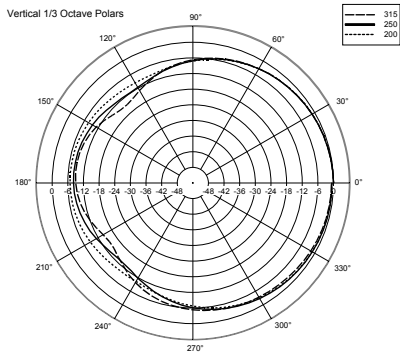




HORIZONTAL 1/3 POLAR PLOT



VERTICAL 1/3 POLAR PLOT

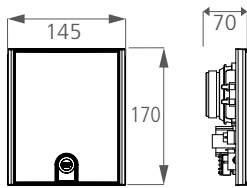


DU 31

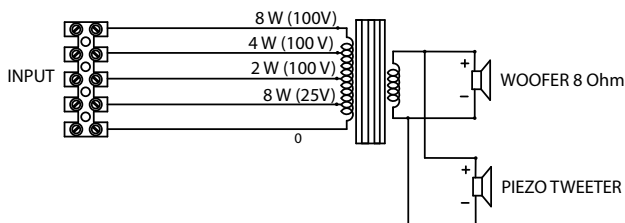
PART NUMBERS

13000204

DIMENSIONS (All data are in mm)



SCHEMATICS



INSTALLATION NOTES

Installation on wall of the DU 31 and DU 31AT is quick thanks to be mounted on a flush-mounting box type GW 48005 by Gewiss or 16205 by BTicino®.

Equivalent European flush mounting box with external dimension 145(W) x 170(H) x 70(D) mm or 130(W) x 160(H) x 70(D) mm.

Installation on wall surface of the DU 31 and DU 31AT is quick thanks to the accessory A 1331, selected point of the two wall screw to fix the back cover.

Fix the front of the speaker to the back with 4 screws.

Fix the flag plastic support to the back cover is possible install the speakers to the wall for a unidirectional and bi-directional application.

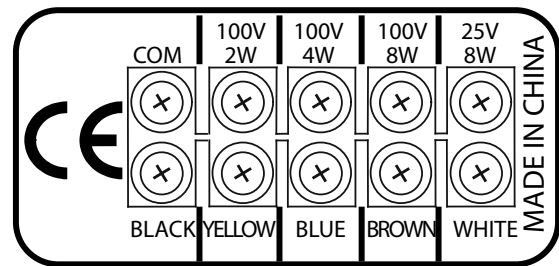
The electrical connections are clearly labelled and made through screw terminals block.

The power can be easily selected in the DU 31 by using common wire and the positive wire using the legend of the power available on the speaker, in the DU 31AT by using the Rotary switch present on the front side of the speaker; the knob is accessible using fingers.

The DU 31 and DU 31AT are intended for indoor installations only.

POWER SELECTION

Define the colour cable to selected the chosen power value referring to the 100 V line (among 0.5 W – 1 W – 2 W – 4 W – 8 W) so the correspondence impedance (among 20000 Ω – 10000 Ω – 5000 Ω – 2500 Ω – 1250 Ω)



CERTIFICATIONS AND APPROVALS

- CE comply with European Community Directive 73/23/EEC and 93/768/EEC
- Environmental protection IP 40 homologation
- Self-Extinguishing plastic according to UL 94V0
- Speaker data according to IEC 268-5
- Safety according to IEC EN 60065:2002

ACCESSORIES (included)

- Connection Terminal
- Steel Grill

ACCESSORIES (not included)

- A1331 Adapter for surface mount or desk-top installation (code 133 60 123 Optional)