



**Loudspeaker STAR 2500**

# Acoustic Signalling and Emergency Communications in the Hazardous Areas of Zones 1 + 2

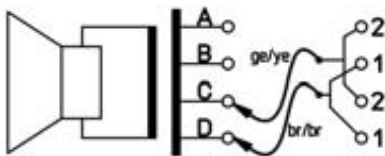
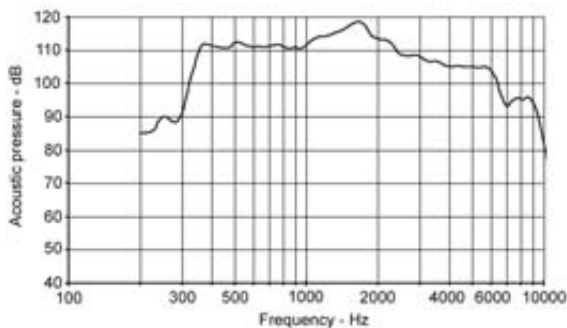
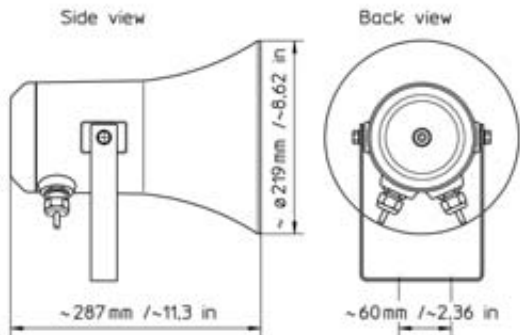
The new STAR 2500 Loudspeaker from the STAR-LINE range guarantees state-of-the-art acoustic signalling in accordance with the ATEX Directive.

- Power up to 25 W, with a volume of up to 119 dB(A)
- Housing of UV-resistant plastic
- Protection class II 2 G EEx dem IIC T5
- Protection degree IP 66





# Loudspeaker STAR 2500



## Coding

via internal stranded hook-up wires:  
note polarity (yellow/brown).

Code wire		Power [Watt]
brown	yellow	
D*	C*	25,0*
C	B	12,5
B	A	8,0
D	B	4,0
C	A	2,0
D	A	1,0

\*Factory setting

Leads 1+2/further loops 1+2

## Technical Data

Housing	Plastic (anti-static), UV-resistant
Colour	Black
Stirrup-type mounting bracket, cover screw	Stainless steel V4A (ASTM 316)
Cable entry	2 x M20 x 1.5 mm
Connection cable	Ø 6 bis 13 mm
Connection terminals	up to 2.5 mm <sup>2</sup> (AWG 14) fine wire up to 4 mm <sup>2</sup> single wire
Weight	approx. 3.5 kg/6.6 lb
Terminal box	Increased safety (e)
Min./max. temperature range	-20 °C to + 55 °C / -55 °C to + 60 °C
Protection degree	IP 66 IEC 60529
Input-output feed-through	up to 20 loudspeakers or max. 500 W
Supply voltage	100 V
Max. power 70 Hz–15000 Hz	25 W
Power stages via coding	25 W; 12.5 W; 8 W; 4 W; 2 W; 1 W
SPL 25 W/1 m	approx. 119 dB (A)
SPL 1 W/1 m	approx. 107 dB (A)
Transmission range	230 – max. 10000 Hz
Transmission range acc. to IEC 60268	330 – 6200 Hz
Distortion factor 1 W/1 kHz	≤ 4%
Distortion factor 10 W/1 kHz	≤ 5%
Angle of radiation 1 kHz–6 dB	130°
Angle of radiation 4 kHz–6 dB	40°
Protection class	CE Ex II 2 G EEx dem IIC T5
ATEX approval	PTB 02 ATEX 1139

## Design

Explosion protection is guaranteed, among other things, by the terminal box of the "increased safety" protection type. The transformer module is encapsulated by means of a sealing compound, making it gas-tight. The acoustic pressure chamber is isolated from the environment via a special filter (sinter metal). The housing is made entirely of thermoplastic, thereby ensuring a high level of protection against corrosion. An equipotential bonding is unnecessary (Insulation class II).

## Application

The STARLINE range of loudspeakers was designed not only for acoustic signalling and emergency communications but also for speech transmission under rugged environmental conditions in potentially explosive areas of group II. The protection degree II 2 G EEx dem IIC T5 allows the loudspeaker to be used in the hazardous areas of zones 1 and 2.



## Ordering data

Type	Article No.	Power	Temp. range with T5
STAR 2500	12383701	25 W	-20 °C up to + 55 °C
STAR 2500 XT	12383601	25 W	-55 °C up to + 60 °C



Protecting People )))

Funke+Huster Fernsig GmbH

Eintrachtstraße 95 · 42551 Velbert · Germany

Phone ++49 2051-270-0 · Fax ++49 2051-270-377

www.fhf.de · info@fhf.de