



► Model GEN-IIB/C and GEN-IIB/C-ISMT

Non-Metallic Zone 1 Loudspeaker

Federal Signal's non-metallic loudspeakers, model GEN-IIB/C and GEN-IIB/C-ISMT, are designed for use in industrial public address and general alarm applications where corrosion resistance and ATEX/IEC Certification are required. GEN-IIB/C and GEN-IIB/C-ISMT are available in an ATEX/IEC Zone 1 explosion-proof version certified IP66 for ingress of dust and combustible gas to Group IIC or Group IIB + H₂ (Hydrogen). GEN IIB/C-ISMT differs from the standard model GEN IIB/C in that it includes an intelligent speaker monitoring and tapping (ISMT) interface built into the speaker to allow remote monitoring and tapping of the speaker without needing to physically access the deployed speaker.

GEN IIB/C and GEN IIB/C-ISMT loudspeaker, designed to accept an audio input of 100 Vrms, is manufactured from corrosion-resistant, anti-static glass reinforced polyester (GRP). Each speaker is transformer coupled with a maximum output of 15 W/25 W and is supplied with preset taps (25 W = 2, 4, 6, 25) (15 W = 2, 3.5, 5, 15) to adjust sound output. Both the 25 W and 15 W models have their own wider range of audio output for varying locations and applications. The only difference is the available wattage taps within the units. Fit and form are the same between the two models.

Mounting is supplied by a "common template" stainless steel ratcheted mounting bracket that locks the loudspeaker in position at a specific angle without slipping. The optional swivel mounting bracket contains three slotted mounting holes to further adjust the speaker position and adapt to a variety of different surfaces.

Connection for field wiring is provided by two M20 x 1.5 mm threaded openings in the bottom of the speaker housing and terminated via internal terminal blocks. All external hardware is manufactured from stainless steel to resist corrosion and provide serviceability for years to come.

FEATURES

- SPL: 123 +/-3 dBA at 25 W, 1 m
- 100 Vrms
- Max 25 W or 15 W Output
- Re-entrant horn design
- Non-metallic, UV Solar resistant housing
- U Mounting bracket included, optional swivel mount bracket available
- IP66 rated, CE Certified
- ATEX and IECEx Certified for Zone 1, Gas Group, IIC or IIB+H₂
- Cable entry: 2 x M20 X 1.5 mm

MODEL	POWDER HANDLING (WATTS)	POWER TRANSFORMER	TAP (WATTS)	DECIBELS 1M
GEN-IIB-15W	15	100 Vrms	2, 3.5, 5, 15	104, 109.5, 115.5, 120.5
GEN-IIB-15W-ISMT	15	100 Vrms	2, 3.5, 5, 15	104, 109.5, 115.5, 120.5
GEN-IIC-15W	15	100 Vrms	2, 3.5, 5, 15	104, 109.5, 115.5, 120.5
GEN-IIC-15W-ISMT	15	100 Vrms	2, 3.5, 5, 15	104, 109.5, 115.5, 120.5
GEN-IIB-25W	25	100 Vrms	2, 4, 6, 25	104, 110.5, 117, 123
GEN-IIB-25W-ISMT	25	100 Vrms	2, 4, 6, 25	104, 110.5, 117, 123
GEN-IIC-25W	25	100 Vrms	2, 4, 6, 25	104, 110.5, 117, 123
GEN-IIC-25W-ISMT	25	100 Vrms	2, 4, 6, 25	104, 110.5, 117, 123

Non-Metallic Zone 1 Loudspeaker (GEN-IIB/C and GEN-IIB/C-ISMT)

SPECIFICATIONS

Gland Entries:	2 X M20 X 1.5 mm
Cable Terminations:	0.5 to 4 mm ² (20 to 12 AWG)
Size:	232.2 x 347 mm (9.1 x 13.7 in)
Material:	Glass Reinforced Polyester (GRP)
Color:	Black
Audio Input:	100 Vrms
Max Audio Output:	123 db at 25 W (1 m)
Net Weight (GEN-IIB/C):	14.5 lb (6.6 kg)
Shipping Weight (GEN-IIB/C):	16.5 lb (7.5 kg)
Operating Temperature:	-58° to +149°F (-50° to +65°C)

CERTIFICATIONS

Certificate Numbers:	
ATEX Certificate Number:	UL 22 ATEX 2889X
IECEx Certificate Number:	IECEx UL 22.0094 X

ATEX coding: Ex II 2GD

Protection:

GEN-IIB-15W, GEN-IIB-15W-ISMT,
GEN-IIB-25W, GEN-IIB-25W-ISMT:
II 2 G Ex db IIB+H2 T4 Gb (Tamb -50° to 65°C)
II 2 D Ex db IIB+H2 T5 Gb (Tamb -50° to 53°C)
II 2 D Ex tb IIIC T135°C Db IP66

GEN-IIC-15W, GEN-IIC-15W-ISMT,
GEN-IIC-25W, GEN-IIC-25W-ISMT:
II 2 G Ex db IIC T4 Gb (Tamb -50° to 65°C)
II 2 G Ex db IIC T5 Gb (Tamb -50° to 53°C)
II 2 D Ex tb IIIC T135°C Db IP66
EN60079-0, EN60079-1, EN60079-31, IEC60079-0, IEC

Standards applied: 60079-1, and IEC60079-31

Refer to Certificate Numbers for specific standard versions.

HOW TO ORDER

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Description	Part Number
Corrosion Resistant Loudspeaker, ATEX Zone 1 Rated Gas Group IIB+H2	GEN-IIB-15W, GEN-IIB-25W
Corrosion Resistant Loudspeaker, ATEX Zone 1 Rated Gas Group IIB+H2	GEN-IIB-15W-ISMT, GEN-IIB-25W-ISMT
Corrosion Resistant Loudspeaker, ATEX Zone 1 Rated Gas Group IIC	GEN-IIC-15W, GEN-IIC-25W
Corrosion Resistant Loudspeaker, ATEX Zone 1 Rated Gas Group IIC	GEN-IIC-15W-ISMT, GEN-IIC-25W-ISMT

ACCESSORIES

Description	Part Number
Swivel Mounting Bracket	K8595172A

REPLACEMENT PARTS

Description	Part Number
Standard Mounting Bracket Kit	K8595171A
Swivel Mounting Bracket Kit	K8595172A