



► 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, are manufactured from corrosion-resistant, anti-static glass reinforced polyester (GRP). Each speaker is transformer coupled with a maximum output of 25 W and is supplied with preset taps (25, 15, 10, and 6) to adjust sound output.

Mounting is supplied by a "common template" stainless steel ratcheted mounting bracket that locks the loudspeaker in position at a specific angle without slipping. Optional swivel mounting bracket contains three slotted mounting holes to further adjust 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 main speaker bottom 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: 124 +/-3dBA @ 25 W, 1m @ 10'/25 W (tone)
- 100 Vrms
- Max 25 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	POWER TRANSFORMER	TAPP (WATTS)	DECIBELS 1 M
GEN-IIB	25 watt	100 Vrms	25, 15, 10, 6	124
GEN-IIB-ISMT	25 watt	100 Vrms	25, 15, 10, 6	124
GEN-IIC	25 watt	100 Vrms	25, 15, 10, 6	123
GEN-IIC-ISMT	25 watt	100 Vrms	25, 15, 10, 6	123

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

SPECIFICATIONS

Gland Entries:	2 X M20 X 1.5B mm
Cable Terminations:	2.5 mm2
	Conductors Size
(GEN-IIB/C/GEN-IIB/C-ISMT):	232.2 mm (9.13") Height
	347 mm (13.66") Length
Material:	Glass-Reinforced Polyester (GRP)
Color:	Black
Audio Input:	100 Vms
Max Audio Output:	124 to 123dB @ 25 Watt (1 meter)
Net Weight:	
(GEN-IIB/C & GEN-IIB/C-ISMT):	14.5 lbs (6.58 kg)
Shipping Weight:	
(GEN-IIB/C & GEN-IIB/C-ISMT):	16.5 lbs (7.48 kg)
Operating Temp Range:	-58°F to +149°F (-50°C to +65°C)

HOW TO ORDER

DESCRIPTION	PART NUMBER
Corrosion Resistant Loudspeaker, ATEX Zone 1 Rated Gas Group IIC	GEN-IIC
Corrosion Resistant Loudspeaker, ATEX Zone 1 Rated Gas Group IIC	GEN-IIC-ISMT
Corrosion Resistant Loudspeaker, ATEX Zone 1 Rated Gas Group IIB+H2	GEN-IIB
Corrosion Resistant loudspeaker, ATEX Zone 1 Rated Gas Group IIB+H2	GEN-IIB-ISMT

ACCESSORIES

Swivel Mounting Bracket	K8595172A
Optional Cover Lanyard	GEN-IIC-LANYARD

REPLACEMENT PARTS

Standard Mounting Bracket Kit	K8595171A
Swivel Mounting Bracket Kit	K8595172A

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 and GEN-IIB-ISMT	II 2 G Ex db IIB+H2 T4 Gb (-50°C to 65°C) II 2 D Ex db IIB+H2 T5 Gb (-50°C to 53°C) II 2 D Ex tb IIIC T135°C Db
GEN-IIC and GEN-IIC-ISMT	II 2 G Ex db IIC T4 Gb (-50°C to 65°C) II 2 G Ex db IIC T5 Gb (-50°C to 53°C) II 2 D Ex tb IIIC T135°C Db EN60079-0, EN60079-1, EN60079-31, IEC60079-0, IEC
Standards applied	60079-1, and IEC60079-31. Refer to Certificate Numbers for specific standard versions