



ET90 Series High-performance Speakers



- ▶ 25 VRMS or 70 VRMS operation at a choice of seven taps from 0.125 W to 8 W
- ▶ Cost-effective two-wire design
- ▶ Low average current draw
- ▶ Extra protection and improved audibility through sealed-back speaker construction
- ▶ Easy wiring with screw terminals
- ▶ Meet or exceed NFPA and ANSI standards

The ET90 Series Speakers provide high audio output with clear audibility, and are designed to meet the critical needs of the life safety industry for effective emergency voice communications and tone signaling. The high-efficiency speakers are designed for maximum output at a minimum wattage across a frequency range of 400 Hz to 4 kHz.

A speaker mounting plate with a built-in level adjustment allows for a faster and easier installation. The two-screw grill cover creates an attractive appearance.

CBFP	City of Chicago Bureau of Fire Protection
NYC/MEA	ET90-N and ET90-R: 151-92-E, Vol. 21; ET90-W: 151-93-E, Vol. 21
ANSI	Complies with American National Standards Institute ANSI 117.1
NFPA	Complies with National Fire Protection Association NFPA 72
OSHA	Complies with Occupational Safety and Health Administration OSHA 29 Part 1910.165

Certifications and Approvals

Cooper Wheelock, Inc. holds these Listings and Approvals:

Region	Certification
USA	UL UEAY: Speakers (UL464)
	CSFM 7320-0785: 134

Installation/Configuration Notes

Compatible Products

The following products are compatible with the ET90 Series Speakers:

Category	Product ID	Product Description
Control Panels	D7022 ¹	Conventional FACP
	D7024 ²	Addressable FACP
	D7024	Conventional FACP
	D8024	Analog FACP
	D9124	Addressable FACP
	D10024A	Analog FACP

These speakers are compatible with Wheelock SAFEPATH4 Facility Communication Systems and Bosch Voice Evacuation Systems.

¹ When used, the D7022 must be set for 24 VDC operation.

² When used with a D7039 Multiplex Expansion Module, the D7024 becomes an addressable fire alarm control panel (FACP).

Mounting

The low profile design of these notification appliances creates more wiring space in standard electrical back boxes. The speaker mounting plate incorporates a built-in level adjustment feature allowing for a faster and easier installation. These speakers mount on the indicated back boxes for the indicated applications:

	Conduit Applications	Surface Mounted	Flush Mounted
Four-inch square* SBB Back Box	•	•	•

* Requires an SER extension ring.

Wiring

The input terminals accept wires with diameters between 18 AWG (1.2 mm) and 12 AWG (2.3 mm).

Parts Included

Quant.	Component
1	Speaker
1	Mounting Plate
1	Hardware pack
1	Literature pack

Technical Specifications

Environmental Considerations

Relative Humidity:	Up to 85%, non-condensing
Temperature (Operating):	+32°F to +120°F (0° to +49°C)

Mechanical Properties

Dimensions (diameter x D):	7.25 in. x 2.9 in. (18.4 cm x 7.5 cm)
Material:	Molded plastic

Power Requirements

Power Requirements

Voltage (input):	24 VDC nominal; 16 VDC or FWR to 33 VDC or FWR
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Speaker Volume at 10 ft (3 m)

0.125 (1/8) W:	75 dBA
0.25 (1/4) W:	78 dBA
0.5 (1/2) W:	81 dBA
1 W:	84 dBA
2 W:	87 dBA
4 W:	90 dBA
8 W:	93 dBA

Ordering Information

ET90-N High-Performance Speaker (nickel) Nickel finish, 24 VDC device providing high audio output with clear audibility, dual voltage capability (25 VRMS or 70 VRMS), and field-selectable taps from 1/8 W to 8 W	ET90-N
ET90-R High-Performance Speaker (red) Red, 24 VDC device providing high audio output with clear audibility, dual voltage capability (25 VRMS or 70 VRMS), and field-selectable taps from 1/8 W to 8 W	ET90-R
ET90-W High-Performance Speaker (white) White, 24 VDC device providing high audio output with clear audibility, dual voltage capability (25 VRMS or 70 VRMS), and field-selectable taps from 1/8 W to 8 W	ET90-W

Accessories

SBB-R Surface-mount Back Box (red) 14 cm (5.5 in.) x 14.2 cm (5.6 in.) x 9.1 cm (3.6 in.)	SBB-R
SBB-W Surface-mount Back Box (white) 14 cm (5.5 in.) x 14.2 cm (5.6 in.) x 9.1 cm (3.6 in.)	SBB-W
SER-R Square Semi-flush Extension Ring (red) 12.7 cm (5 in.) square by 4 cm (1.5625 in.) deep	SER-R
SER-W Square Semi-flush Extension Ring (white) 12.7 cm (5 in.) square by 4 cm (1.5625 in.) deep	SER-W
SSB-4 Ceiling Support Bridge 60.3 cm (23.75 in.) long by 16.5 cm (6.5 in.) wide	SSB-4

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