

ET90 High-performance Speakers

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Invented for life



- ▶ 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

The ET90 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.

Certifications and approvals

Cooper Wheelock, Inc. holds these Listings and Approvals:

Region	Certification	
USA	UL	UEAY: Speakers (UL464)
	CSFM	see our website

Installation/configuration notes

Compatible Products

The following products are compatible with the ET90 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
	FPD-7024 ²	Addressable FACP
	FPD-7024	Conventional 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 and FPD-7024 become addressable fire alarm control panels (FACPs).

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 and 12 AWG (ISO 0.75 mm² and 4 mm²).

Parts included

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

Technical specifications

Electrical

Power Requirements

Voltage (input):	24 VDC nominal; 16 VDC or FWR to 33 VDC or FWR
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Environmental

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

Mechanical

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

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

Order number **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

Order number **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

Order number **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.)

Order number **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.)

Order number **SBB-W**

SER-R Square Semi-flush Extension Ring (red)

12.7 cm (5 in.) square by 4 cm (1.5625 in.) deep

Order number **SER-R**

SER-W Square Semi-flush Extension Ring (white)

12.7 cm (5 in.) square by 4 cm (1.5625 in.) deep

Order number **SER-W**

SSB-4 Ceiling Support Bridge

60.3 cm (23.75 in.) long by 16.5 cm (6.5 in.) wide

Order number **SSB-4**

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