

e-Q2B™ ELECTRONIC SIREN



"If it looks like a Q and sounds like a Q, it must be an e-Q2B."

Federal Signal's state-of-the-art e-Q2B electronic siren carries on the tradition of our classic Q2B® electro-mechanical siren. The e-Q2B combines Digital Signal Processor (DSP) technology with a true 200 watts of speaker output to reproduce genuinely and accurately the distinctive sound of the Q-siren at a fraction of the current draw.

In addition to the recognizable "Q" sound, the e-Q2B provides all of the functionality of an electronic siren with PA.

The e-Q2B is comprised of a 200-watt DSP Amplifier, and a Digital Output Controller. These components work together to generate the recognized sound of Federal's Q-siren.

POWERFUL AMPLIFIER WITH STATE-OF-THE-ART DSP TECHNOLOGY

Using DSP circuitry, the e-Q2B's amplifier is able to reproduce the true "Q" sound rather than relying on a simple digital recording. DSP also enables the product to function either manually or automatically for hands-free operation.

DIGITAL OUTPUT CONTROLLER ACTIVATES SIREN FUNCTIONS

Another innovation in the e-Q2B system is the Digital Output Controller. This state-of-the-art controller digitally transmits and prioritizes end user commands. The control head/amplifier interface utilizes solid-state digital decoding, which minimizes interconnection complexity.

The Digital Output Controller allows the end user to operate several siren functions. The traditional "Q" Wail can be activated in automatic or manual modes. Additional features include a Yelp, "Q" Brake, digitally recorded Air Horn, PA, radio rebroadcast, and a detachable push-to-talk microphone with volume control.

The e-Q2B has been designed to not only reproduce the LOOK and SOUND, but also the FEEL of the traditional Q-siren. In order to recreate the "Q" feel, the Digital Output Controller provides three external inputs. These inputs allow for the use of externally configured foot switches for activating the Manual Wail, Brake, and Air Horn functions.

QUICK REFERENCE

FEATURES

- Q-siren Wail (Auto and Manual), "Q" Brake, Yelp, and Air Horn.
- True 200-watt PA and radio rebroadcast.
- Choose a system with either (1) 200-watt speaker or (2) 100-watt speakers.
- Noise canceling microphone included.
- Current draw of only 30 amps.
- Foot switch compatible.

APPLICATIONS

- Fire apparatus
- Ambulances
- Light Fleet/Command Vehicles

WARNING

This product produces LOUD sounds for requesting the right of way. Refer to the operating manual for guidelines on how to prevent possible hearing damage.

RELATED PRODUCTS

- Q2B® Electro-Mechanical Siren
Bulletin #5106
- BP Series of Speakers
Bulletin #6101
- TS100-N
Bulletin #6105
- DynaMax™ Speaker
Bulletin #6103

REGISTERED TRADEMARK

The distinctive sound of the Q2B electro-mechanical siren is a registered trademark owned by Federal Signal Corporation.

Unlike other siren systems, the PA feature offers bandwidth to 10 KHz and a true 200 watts of clear PA power.

DESIGNED TO REDUCE RADIO FREQUENCY INTERFERENCE

The e-Q2B has been designed to meet SAE and FCC standards concerning radio frequency interference. Significant design elements have been incorporated into the product to help make the e-Q2B more compatible with other electronic devices on your vehicle.

The e-Q2B achieves two operational advantages through the use of electronic circuitry and filtering components:

1. The operation of the e-Q2B is protected from the effects of interference from vehicle electronic systems and nearby operating electronic equipment.

HOW TO ORDER

- Specify amplifier/controller.
 - EQ2B** 200-watt siren amplifier with digital output control head and microphone
- Choose (1) 200-watt speaker or (2) 100-watt speakers.
 - BP200-Q** 200-watt speaker with classic chrome "Q" grille and mount
 - BP200-EF** 200-watt speaker with stainless steel "Electric F" grille
 - MS100** 100-watt DynaMax™ speaker
 - BP100** 100-watt speaker, black
 - CP100-S** 100-watt stainless steel speaker, highly polished
 - TS100-N** 100-watt economical speaker

2. The e-Q2B itself will not interfere with the operation of emergency vehicle and other nearby operating electronic equipment.

Q2B OR E-Q2B – THAT IS THE QUESTION!!!

The e-Q2B electronic siren is the right choice for your smaller apparatus or ambulance when you want the same penetrating, long distance warning of the electro-mechanical Q2B without the current draw requirements. The e-Q2B produces the bona fide "Q" sound with only 30 amps of continuous current draw.

With the e-Q2B, you can put the sound of the "Q" on vehicles in your fleet whose electrical systems previously could not support a Q-siren.

When you cannot use the original Q2B, specify the e-Q2B.

- Order optional accessory (if necessary).
 - MNC-1** Premium high quality microphone with increased noise canceling capability

REPLACEMENT PARTS

- Z8616015A** EQ2B control head, complete
- Z85361065A** EQ2B control head bracket
- Z8616001A** EQ2B power cable
- Z8616005A** EQ2B amplifier, complete
- Z8616004B** EQ2B accessory kit
- Z258B577B-03** EQ2B standard noise canceling microphone

FACTORY SET SPECIFICATIONS						
Model	Input Voltage	Polarity	Operating Current	Frequency Range	Voltage Output	Operating Temperature
EQ2B	11-16 VDC	Negative ground electric systems only	30 A (at 13.6 V with 5.50-ohm load)	300-3000 Hz (freq. response ±dB)	33 Vrms peak-to-peak (approx.)	-30° C to 65° C

DIMENSIONS						
Model	Height		Width		Depth	
	in.	cm.	in.	cm.	in.	cm.
EQ2B Control Head	3.5	8.9	7.0	17.8	2.0	5.1
EQ2B Amplifier	4.0	10.2	15.0	38.1	9.0	22.9