



## **ECONOMICAL, FULL-FEATURED SIREN CONTROLLER**

- Remote Radio Control function available
- Controls warning lights and audible devices
- Two-tone sequential, DTMF and digital FSK decoding
- Four individually programmable output relays
- Push-button local control or dry-contact closure inputs for landline control
- Six built-in siren tone signals

# **Siren Controller**

## **Model FC**

The Federal Signal Controller Model FC is a 120VAC radio receiver/decoder and timer with relay outputs. This versatile model is ideal for virtually all siren control applications and any other process which can be controlled via relay contacts.

The microprocessor-based controller comes with two-tone sequential, dual-tone multiple frequency (DTMF), or frequency shift keying (FSK) decoding capabilities, and up to four individually programmable relays.

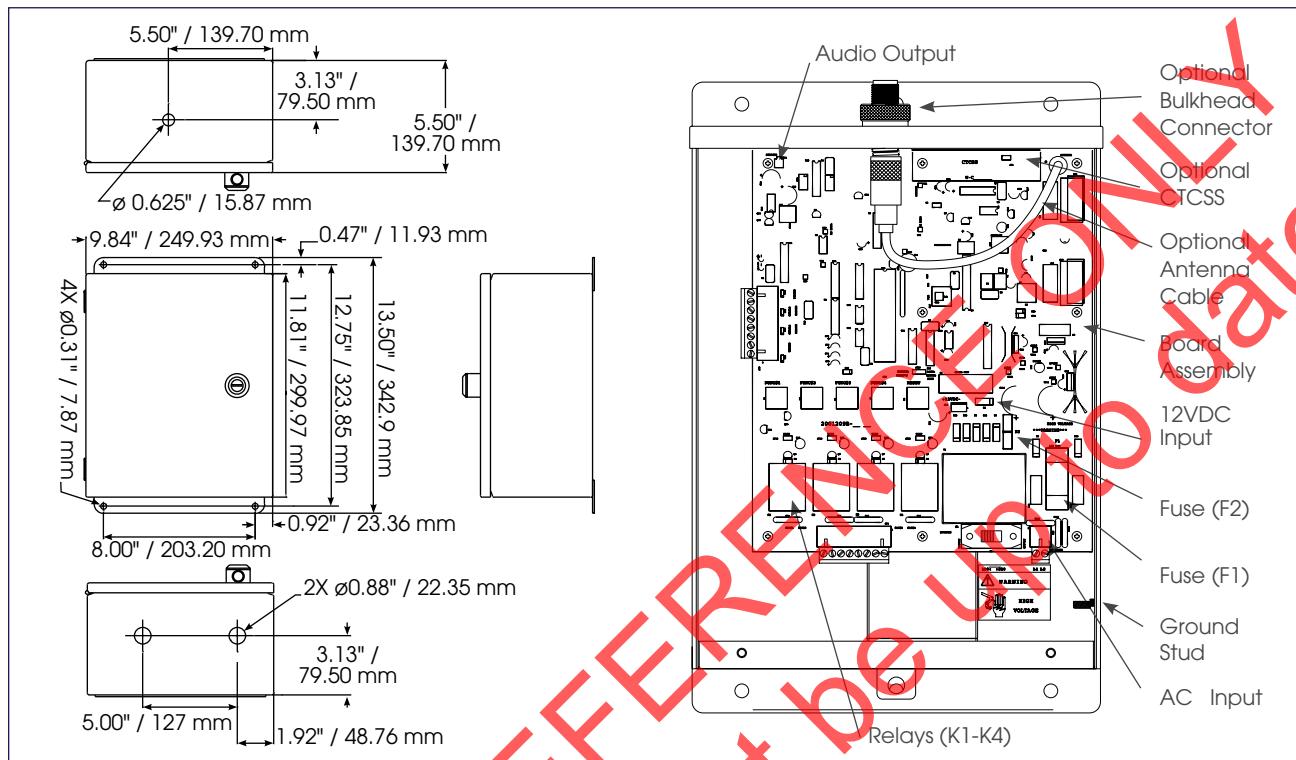
Options include a synthesized radio receiver (low band, high band, or UHF), a built-in tone generator, which adds six standard tones, public address capability, and a software package that allows the unit to be connected to any IBM-compatible computer to modify supplied timing or to create unique tone patterns. Programming options include radio receiver frequency, two-tone sequential tones/DTMF/FSK decoding digits, custom audible signal tones, and independent control of output relays and timing patterns for electromechanical sirens.

Up to six control codes may be programmed and activated by any combination of two-tone sequential, DTMF or FSK tone bursts. Four of the timing sequences can be initiated using local push buttons or remotely through dry contact closures.

The Federal Controller is used to control Federal Signal siren Models 2 and 2001. Also, the unit can be used to add radio activation of indoor PA and SelecTone® systems, to control warning lights, or to replace existing and outdated electro-mechanical timing mechanisms for existing systems.

**HISTORICAL RECORD  
Document may not be up-to-date**

## RADIO ACTIVATED CONTROLLER (FC/FCG)



## SPECIFICATIONS

### ELECTRICAL

AC Power Inputs:	120 or 240VAC
Battery Input (12VDC):	10.5 to 18.0VDC
Input Current:	120VAC 12VDC
Relay Output Timings:	180mA AC Max. 460mA DC Max. 0.5 to 999.0 seconds

### RECEIVER/DECODER

Frequency Range (programmable):	30 to 50MHz in 5kHz steps
Low Band:	148 to 174MHz in 5kHz steps
High Band:	450 to 470MHz in 12.5kHz steps
UHF:	0.35 uV for 12dB SINAD
Sensitivity:	(-60)dB
Rejection:	(-60)dB
Selectivity:	5.0 ppm
Stability:	50.0 ohms
Antenna Impedance:	64 to 3300 Hz
Audio Band Pass:	

Deviation Acceptance:  $3.5 \pm 1.0$  kHz for valid decoding  
(3.3 kHz nom.)

Decode Sensitivity: 20dB S/N (typical 0.5 uV or RF)

### DTMF

Format: 50/50 to 1000/1000 milliseconds  
(digit duration/digit silence)  
3 to 12 digits

### FSK

Format: 1200 Baud, MSK  
Usable Decode Sensitivity: 10dB SINAD (min.)

### TWO TONE

Timing: 0.5 to 8.0 seconds duration (each tone)  
Intertone Silence: 0.4 seconds max.  
Frequency Range: 300-3000Hz  
Operating Temperature: -30°C to 65°C (-22°F to 140°F)  
Dimensions: 14.25"H x 9.25"W 5.5"D  
(36.2 cm x 23.5 cm x 14.0 cm)

## HOW TO ORDER

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

Considerations for system configuration:

- Specify model (FC) – call representative for various options to meet specific requirements.
- Specify voltage (120VAC or 240VAC)

- Specify radio frequency
- Specify antenna (RP164) high band or UHF band (one way)
- Optional Accessories:  
Programming Software (FSPWARE)  
Tone coded squelch decoder (CTCSS/PL)