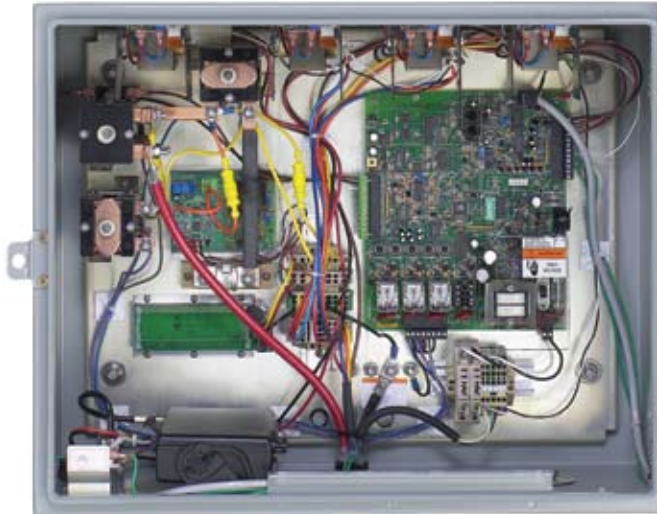




DCFCTB DC Two-Way Digital Controller for 2001 & Eclipse Siren Series

> Features

- Two-way siren controller for 48VDC sirens
- Two-way radio control and status monitoring
- FSK two-way signaling format
- Simultaneous single tone, two-tone sequential, DTMF decoding and optional EAS
- Push buttons for local activation
- UL Listed for general signaling



The Federal Signal DCFCTB is a two-way, battery-operated status monitoring siren controller for use with the Federal Signal 2001-130 siren and Eclipse siren series. The controller interfaces with an off-the-shelf two-way radio transceiver and communicates to the base control via FSK signaling. In addition to FSK, the controllers will simultaneously decode any combination of single-tone, two-tone sequential, DTMF or optional EAS formats for activation. This makes the two-way controller compatible with virtually any existing siren control system.

All DCFCTB models come equipped with four (4) independent relay outputs that can be programmed to activate with various codes. There are four (4) landline inputs and four (4) local push buttons for activation, plus cancel. Activation codes, relay timing, and optional warning sounds are programmed into the unit through a standard RS232 serial port or over-the-air from the central control point.

The DCFCTB offers six (6) user programmable functions in addition to the five pre-set functions: arm, disarm, report, growl test and master reset. The controller includes the necessary sensors and wiring to supply information on the following areas of operation: AC power status, communications status, low battery status, intrusion, siren activation current and siren rotation.

> Specifications

Electrical	
AC supply voltage	120 VAC @ 4.0 amps
Current Draw	+/- 10%, 50/60 Hz, maximum standby current
Power Supply	6A @ 13.3v DC
Battery Backup	48v DC (Four model #M24MF Delco Voyagers required)
Current Draw	< .2 amps in standby
Serial Ports	
Serial Port Protocol	RS232C 1200, N, 8, 1
Transceiver	
Programmable Frequency	Power Out and Private Line options. For further details consult the Motorola product Manual.
Signaling Format	
FSK	1200 baud, MSK modem type Useable decode sensitivity: 12dB SINAD (min.)
DTMF	3-12 standard DTMF characters
Two-Tone Sequential	
Frequency Range	282 Hz - 3000 Hz (non-CTCSS) 400 Hz - 3000 Hz (CTCSS)
Tone Timing	.5 sec - .25 sec min., 8 sec max
Intertone Gap	400ms (maximum)
Tone Accuracy	+/- 1.5%
Tone Spacing	5.0% preferred, 3% min.
Single Tone	
Frequency Range	282 Hz - 3000 Hz
Tone Timing	0.5 sec. - 8 sec maximum
Tone Accuracy	+/- 1.5%
Tone Spacing	5.0% preferred, 3% min.
Relay Outputs	
4 relay outputs	SPST
Contact Rating	(4 relays standard) 5A @ 28v DC 5A @ 240v AC
Audio Output	
Output Voltage	>2V Peak to Peak
Maximum Load	8 Ohms
Total Harmonic Distortion	<10% @ 1kHz Sinewave
Environmental	
Operating Temperature	-30°C to 65°C

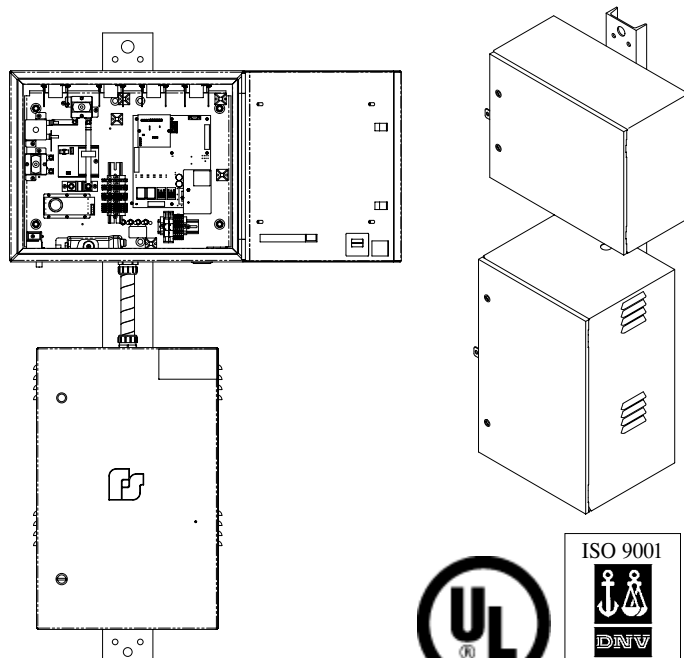
Controller Dimensions	
HxWxD	62.5" x 23.5" x 16.94" 1588mm x 597mm x 430mm NEMA 4X Rated
Battery Cabinet Dimensions	
HxWxD	18" x 28" x 15.19" 457mm x 711mm x 386mm Vented NEMA 4X Rated
Shipping Weight	
Approx. Shipping Weight	300 lbs. (136.36 kg)
Actual Weight	234 lbs. (106.3 kg)
2001TR: AC Primary Operation	
Operating Voltage	208/220/240 VAC single phase
Current Requirements	30 Amps. (approx.)
Dimensions	23" x 11" x 10" (584mm x 279mm x 254mm)
Weight	150 lbs. (68.2 kg)
Order information	
DCFCTB(D) ^{1,2}	Two-way Federal Controller
DCFCTB(D)H ^{1,2}	Two-way Federal Controller, high band 136-174 MHz
DCFCTB(D)U ^{1,2}	Two-way Federal Controller, UHF band 450-470 MHz
DCFCTB(D)-IP ^{1,3}	IP-enabled two-way electro-mechanical controller
Options	
FSPWARE	Federal Programming Software (Non-Digital Applications)
SFCDDWARE	Federal Commander Digital Software (See literature for details)
Q-DC-IP ^{1,3}	Retrofit kit to upgrade existing controller to IP
EAS	Origination, activation and location codes

(D) Indicates digital Federal Controller two-way

¹ For use with 2001-130 and Eclipse siren series.

² Antenna and cable are not included with radio activation control and must be ordered separately.

³ Broadband radio and Codespear software sold separately.



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