

Federal Controller Two-Way

Features

- Six remote sensor inputs
- Two-way control and status monitoring
- Interface with PA systems, voice capable fire alarm systems and telephone alerting systems
- Programmable codes and timing
- Push buttons for local activation
- Built-in tone generator for local tones or public address features
- Internal battery back-up
- UL listed



The Federal Controller two-way digital (model FCTBD) will control and monitor any electro-mechanical siren, and may be used in conjunction with the SS2000 encoder located at a central command point. The FCTBD will automatically report any change in status of the AC, low battery and intrusion sensor inputs back to the SS2000 while the siren is not sounding. The system may be polled via the SS2000 at any time for current status conditions. The FCTBD offers the ability to monitor six remote sensor inputs, such as: AC power, low battery, up to three additional sensors to monitor siren motor operation. The FCTBD is packaged in a NEMA 4 weatherproof cabinet and comes equipped with power supply, gel battery, processor unit, radio transceiver and AC power surge protection.

The FCTBD is field programmable through an RS232 port. This enables the user to change activation code formats and signal timing. Programming is accomplished by using the FSPWARE that can be purchased separately. The FCTBD is programmable over the air, and includes a "digipeat" system feature that automatically seeks and recalls the best means of transmitting data to the central control by using the siren sites as radio repeaters. This feature can greatly reduce the costs of RF infrastructure required for the system.

The FCTBD is an ideal choice for upgrading or retrofitting one-way controls to two-way status monitoring for use with existing electro-mechanical sirens like the Federal Signal 2001-130 siren, Eclipse siren series and the Model 2 siren.



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Federal Controller Two-Way Specifications

Electrical Specifications

AC Supply Voltage	120 VAC @ 3.0 Amps
Current Draw	240VAC @ 1.5 Amps +/- 10%, 50/60 Hz, maximum standby current
Power Supply	10A @ 13.3 VDC, 2A @ 13.3 VDC
Battery Backup	12VDC 12A/H standby
Current Draw	< 600 Ma. Amps in standby

Serial Ports

Serial Port Protocol	RS232C 600, N, 8, 1
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Transceivers Specifications

Programmable frequency: power out and private line options. For further details consult the Motorola® product manual.

Signaling Formats

AFSK	1200 baud, MSK (Minimum Key Shift) modem type Usable decode sensitivity: 10db(C) SINAD (Min.)
DTMF	3-12 standard DTMF characters

Relay Outputs

4 relay outputs	SPST
Contract Rating	(4 relays standard) 3A @ 30VDC 7A @ 250VAC

Audio Output

Output Voltage	>2V Peak to Peak
Maximum Load	8 Ohm
Total Harmonic Distortion	<10% @ 1kHz sinewave

Environmental

Operating Temperature	-30°C to 65°C
Humidity	0-98% non-condensing

Controller Dimensions

HxWxD	62.5" x 23.5" x 16.94" 1588mm x 597mm x 430mm NEMA 4X rated
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Battery Cabinet Dimensions

HxWxD	20" X 20" X 12" 50.8cm X 50.8cm X 30.48cm Vented NEMA 4X rated
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Shipping Weight

155 lbs. (approx.)

Select Model

FCTBD ^{1,2}	Two-way Federal Controller
FCTBDL ^{1,2}	Two-way Federal Controller, low band 30-45 MHz
FCTBDH ^{1,2}	Two-way Federal Controller, high band 148-174 MHz
FCTBDU ^{1,2}	Two-way Federal Controller, UHF band 403-470 MHz
FCTBD-IP ^{1,3}	IP-enabled, two-way electromechanical controller
FCTB-LL	Two-way Federal Controller, Landline

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

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

³Broadband radio and Codespear software sold separately.

Options

FSPWARE	Federal programming software (non- digital applications)
SFCDWARE	Federal Commander digital software (see literature for details)
FS-PL	Private line tone and digital coded squelch encoder and decoder
SINAD	Signal-to-noise ratio monitor
TB-LL	Telco Base, Landline
ES-PROG-DTMF	Two-way DTMF Programming

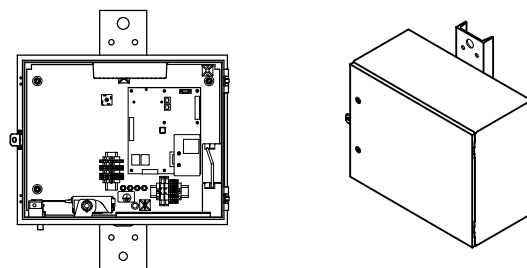
Sensor kits for Federal Controllers with two-way status monitoring

Select the sensor that matches your siren motor type and number

SK-SM	Single motor AC current sensor
SK-3M	Three motor AC current sensor

Select the sensor that matches your voltage and phase

SK3-240	3-phase, 240VAC voltage sensor
SK3-480	3-phase, 480VAC voltage sensor
SK1-120	Single phase, 120VAC voltage sensor
SK1-240	Single phase, 240VAC voltage sensor



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