FEDERAL SIGNAL

▶ Model FCTBD

Two-way control and status monitoring

Monitor any electro-mechanical siren.

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+ Controller located at a central command point. The FCTBD will automatically report change in status of the unit's components back to the SS2000+ Controller. The system may also 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 and up to three additional sensors to monitor siren 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.
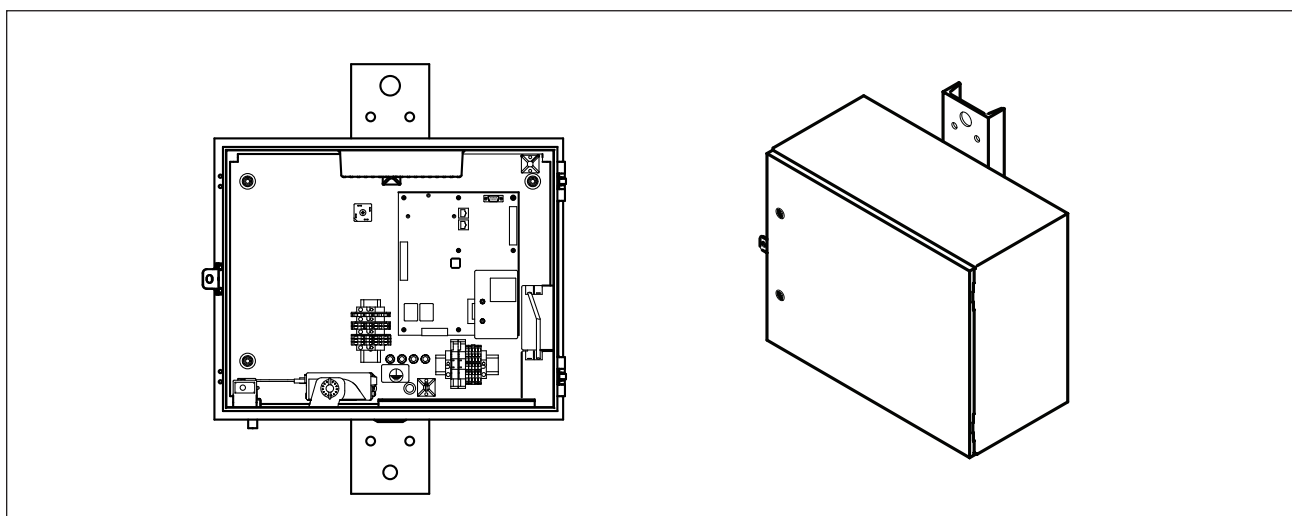
The FCTBD is an ideal choice for upgrading or retrofitting one-way controls to two-way status monitoring for use with existing electro-mechanical sirens like the Federal Signal 2001-130 siren, 508, Eclipse8 and the Model 2 sirens.

FEATURES

- Two-way control and status monitoring
- Six remote sensor inputs
- 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

Two-Way Digital Controller (FCTBD)

S P E C I F I C A T I O N S

Operating Temperature: -22°F to 149°F   -30°C to 65°C
Humidity: 0-98% non-condensing
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 - std, ext, Gel and AGM batteries
available
Current Draw: <600 mA in standby
Serial Port Protocol: RS232C 1200, N, 8, 1

Transceiver Specifications:

    Programmable frequency: Power out and private line
      options. For further details consult the Vertex® Standard
                                      product manual.

Signaling Format:
    AFSK1200 baud, MSK (Minimum Key Shift) modem type.
            Usable decode sensitivity: 10db(C) SINAD (Min.)
    DTMF   3-12 standard DTMF characters
4 relay outputs: SPST
Contract Rating: (4 relays standard) 3A @ 30VDC,
                                           7A @ 250VAC
Audio Output Voltage: <2V peak to peak
Maximum Load: 8 Ohms
Total Harmonic Distortion: <10% @ 1kHz Sinewave
Controller Dimensions HxWxD: 62.5"x 23.5"x 16.94"
                                   1588mm x 597mm x 430mm
Battery Cabinet Dimensions HxWxD: 20" x 20" x 12"
                                50.8cm X 50.8cm X 30.48cm)
                                      Vented NEMA 4X rated
Shipping Weight (approx.):   155 lbs.   70.3 kg

R E P L A C E M E N T   P A R T S

Description	Part Number
Q20000288	12VDC Charger
155193A	12VDC Battery
Q2005263B	FC+ Control Board

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H O W   T O   O R D E R

Specify Model:

Description	Part Number
Two-way Federal Controller	FCTBD[1,2]
Two-way Federal Controller, high band148-174 MHz	FCTBDH[1,2]
Two-way Federal Controller, UHF band 403-470 MHz	FCTBDU[1,2]
IP-enabled two-way electro-mechanical controller	FCTBD-IP[1,3]

[1] For use with 2001-130, 508 and Eclipse[8]
[2] Antenna and cable are not included with radio activation control and must be ordered separately.
[3] Broadband radio and SmartMsg software sold separately.

O P T I O N A L   A C C E S S O R I E S

Description	Part Number
Federal Commander Digital Software (See literature for details)	SFCDWARE
Two-way DTMF Programming	ES-PROG-DTMF
Private line tone and digital coded squelch encoder and decoder	S-PL1
Encoder and decoder (low)	FS-PL2
Hardware Controller	SS2000+
Telco Base, Landline	TB-LL
Two-way DTMF Programming	ES-PROG-DTMF

Sensor kits for Federal Controllers with two-way status monitoring
Select the sensor that matches your siren motor type and number

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

Select the sensor that matches your voltage and phase

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

WARRANTY
5 YEAR
FEDERAL SIGNAL
WARRANTY

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