FEDERAL SIGNAL



Model FCTBD

Two-way control and status monitoring

The FCTBD controller can control and monitor any electro-mechanical siren, and may be used in conjunction with the SS2000+ or Commander PC based software located at a central command point. The FCTBD will automatically report change in status back to the central command point through radio, IP, cellular, satellite or landline connections. The central command point can also poll the FCTBD for current status conditions. Status indictors are provided for intrusion alerts, activations and power issues. The FCTBD offers the ability to monitor six remote sensor inputs, such as: AC power, low battery and up to three additional sensors to monitor siren operation. The FCTBD is packaged in a NEMA 4 aluminum weatherproof cabinet and comes equipped with DIN rail for 120 or 240VAC power connections, 120/240VAC to 12VDC power supply, gel battery, FCM Plus control board, radio cable for Motorola® Vertex VX-2100 and AC power surge protection. Power wiring is fuse protected, with replaceable fuses. Standard features include intrusion switch for detection of door opening. Battery backup for FCM Control board and radio communications.

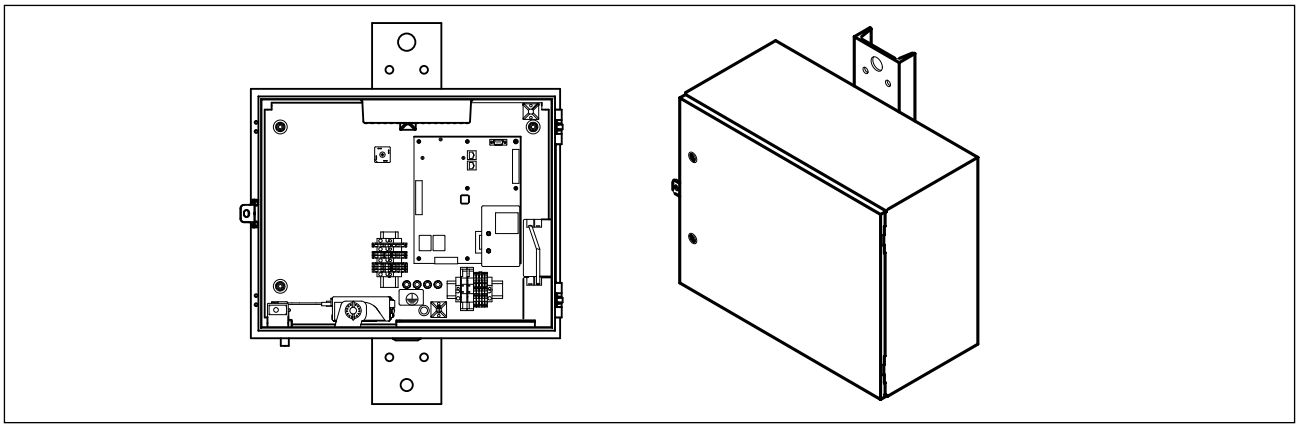
The FCTBD can also be ordered as FCTBDH and FCTBDU which includes a Vertex radio transceiver (FCTBDH = high band or FCTBDU = UHF). FSPWARE, an optional software package, enables connection to a computer to modify supplied timing or to create unique on/off patterns for control of external equipment, such as sirens. Programming options via FSPWARE include radio frequency, two-tone sequential tones/DTMF decoding digits for security, custom audible signal tones and independent control of output relays and timing patterns for electro-mechanical sirens. Up to six control codes may be programmed and activated by any combination of two-tone sequential, DTMF, EAS, POCSAG, and digital AFSK. Four of the timing sequences can be initiated using local push buttons or remotely through dry contact closures. The use of Commander Software and SS2000+ allows remote control activation, monitoring and networking of multiple FCTBD Controllers.

The FCTBD can also be equipped with an IP interface to allow high speed connections to the siren controller. Federal Signal recommends use of Commander software to create a fully redundant siren control 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, Equinox, 508-128, Eclipse8 and Model 2 sirens.

FEATURES

- Two-way control, activation and status monitoring
- Four individually programmable output relays
- Six built in siren tone signals for PA/Intercom
- External inputs for sensors and activation
- Push buttons for local activation
- Internal battery back-up
- 120 or 240VAC power
- UL and cUL listed, and DNV certified
- Simultaneous two-tone sequential, DTMF, EAS, POCSAG, and digital AFSK decoding for security

Two-Way Control and Status Monitoring (FCTBD)



SPECIFICATIONS

AC Input Voltage:	120 or 240VAC ±10%, 60Hz 3A	
DC charger/radio power:	120 or 240VAC switch selectable	
Battery:	Sealed Lead Acid/12A Hr	
4 Relays, contact rating:	8A @ 120/240VAC 5A @ 24VDC	
Number of remote activation inputs:	4	
Audio Output:	0-2V peak to peak, maximum load 8 ohms	
Environmental:		
Temperature	-22°F to 149°F / -30°C to 65°C	
Humidity	0-98% non-condensing	
Net Weight	95 lbs	43.2 kg
Shipping Weight	155 lbs 7	0.5 kg
Dimensions H x W x D:	19″ x 23″ x 11.2″ (48.3 cm x 60 cm x 28.5 cm)	
Shipping Weight:	155 lbs	70.3 kg

HOW TO ORDER

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

Description	Part Number
Two-way Controller with FCMPlus Control Board and radio	**FCTBD**
Two-way Controller with FCMPlus Control Board and Radio, high band 148-174 MHz	**FCTBDH**
Two-way Controller with FCMPlus Control Board and Radio, UHF band 403-470 MHz	**FCTBDU**
Two-way IP-enabled Electro-mechanical Controller	**FCTBD-IP**

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

Broadband radio and Commander software sold separately.

REPLACEMENT PARTS

Description	Part Number
12VDC Charger	**Q20000288**
12VDC Battery	**Q155193A**
FC+ Control Board	**Q2000200C**

OPTIONAL ACCESSORIES

Description	Part Number
Windows Programming Software (Non-digital applications)	**FSPWARE**
Commander® Software System, *10, 25, 255, or 512 Site License	**SFCD***
Hardware Controller	**SS2000+**
Telco Base, Landline	**TB-LL**
Single motor AC current sensor	**SK-SM**
Three motor AC current sensor	**SK-3M**
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**

See Project 25 product on page 248 for optional P25 configuration accessories if desired