



PF200

► Pathfinder® | Siren and Light Controller

FEATURES

- 100/200 W siren and light controller with PA and noise-canceling microphone
- Built-in dual tone capability
- Built-in Rumbler® intersection clearing capability
- Optional FS Vehicle Integration and On-Board Diagnostics Integration (OBDII)
- Programmable timer feature
- Siren tones, PA, Radio Rebroadcast and Air Horn
- Library of selectable siren tones includes SmartSiren®, Unicontrol™, and Powercall siren tones
- Horn Ring Transfer and Park Kill
- Backlit LEDs on control faceplate emulate SignalMaster™ directional warning operation
- (7) programmable inputs and (12) programmable solid-state relay outputs
- Pathfinder Configuration Software allows for easy customization of siren and light controls
- (2) FS Convergence Network ports
- Dual-color backlit push-buttons
- (25) standard voice messages available in English, Spanish and French Canadian to broadcast alerts. Custom voice messages available for an additional fee
- Five-year warranty

APPROVALS

- Meets or exceeds SAE, California Title 13, and NFPA requirements

Pathfinder® is a compact, programmable siren and light controller available with self-contained controls, remote surface mount control heads, or handheld control head. Pathfinder is packed with features such as dual-tone and integrated Rumbler intersection clearing capability along with optional Federal Signal Vehicle Integration/On-Board Diagnostics (OBDII) integration. Pathfinder is easy to install and incorporates Pathfinder Configuration Software to provide a high-level of customizable control capability. Pathfinder Configuration Software is available as a download from the Federal Signal website making it easy to program one vehicle –or an entire fleet–from your laptop.



PF200S17



PF200H



PF200R shown with 1/4" jack microphone plug option (sold separately)



PF200S4



PF200S6



Controller Features

Pathfinder provides the user with customized control of the siren, warning lights, directional lights, and other accessories. All controller options feature, programmable push-buttons that can be programmed for press-on, press-off and momentary. The button brightness can be dimmed or turned-off for stealth operation. Over (100) labeling stickers, such as alley, gun lock and wail allow for further customization of the control head. Pathfinder can control the SignalMaster™ directional functions in light bars, ILS systems and “stick” lights that are compatible with FS Convergence Network as well as Latitude™ 3-wire SignalMaster. For convenient visual reference, the Pathfinder emulates the selected pattern of the SignalMaster operation.



PF200R shown with 1/4" jack microphone plug option (sold separately)

Self-contained controls and Remote surface mount controller

The control faceplate includes a four-position progressive slide switch, seven-position rotary switch and (9) backlit push-buttons. Pathfinder is designed to detect speaker faults and includes (2) programmable speaker diagnostic LEDs on the faceplate that default to Off when speakers are enabled. The noise-canceling microphone that is included with the remote-control head uses a RJ11 connector to plug directly into the control head, eliminating the need to run a mic cable back to the amplifier. For increased versatility the amplifier offers a 1/4" jack microphone plug option (1/4" jack microphone and remote extension kit sold separately).



Programmable speaker diagnostic LEDs



Dual-color programmable push-buttons



SignalMaster™ indicator LEDs

Handheld controller

The handheld controller features (14) backlit push-buttons, and the ergonomic design provides convenient volume control and push-to-talk button on the side of the controller. It also has a magnetic mount and includes brackets for fixed or swivel mounting. The microphone is included in the control head, eliminating the need to run a mic cable back to the amplifier. For increased versatility, the amplifier offers a ¼" jack microphone plug option. (¼" jack microphone and remote extension kit sold separately).



17 Button Controller

With a similar look and feel to Federal Signal's SmartSiren Platinum controller, the 17 button controller is specifically designed and programmed to work with the Pathfinder Siren. The control head features a four-position progressive slide switch and (17) backlit push-buttons. For visual reference, the control head emulates the selected pattern of the SignalMaster operation. The included noise-cancelling microphone uses a RJ11 connector to plug directly into the control head, eliminating the need to run a mic cable back to the amplifier. For increased versatility, the amplifier offers a ¼" jack microphone plug option (¼" microphone and remote extension kit sold separately)



4 Button Controller

The 4 Button controller faceplate includes (4) backlit push-buttons. For visual reference, the control head emulates the selected pattern of the SignalMaster operation. The noise-canceling microphone that is included with the 4 button control head uses a RJ11 connector to plug directly into the control head, eliminating the need to run a mic cable back to the amplifier. For increased versatility the amplifier offers a ¼" jack microphone plug option (¼" jack microphone and remote extension kit sold separately).



6 Button Controller

The 6 Button controller faceplate includes (6) backlit push-buttons and a four-position progressive slide switch. For visual reference, the control head emulates the selected pattern of the SignalMaster operation. The noise-canceling microphone that is included with the 6 button control head uses a RJ11 connector to plug directly into the control head, eliminating the need to run a mic cable back to the amplifier. For increased versatility the amplifier offers a ¼" jack microphone plug option (¼" jack microphone and remote extension kit sold separately).



Amplifier Features

Pathfinder default siren tones include Wail, Yelp, Priority, Manual/Peak-and-Hold, Hi-Lo, Powercall, and Air Horn. A library of other selectable siren tones are available including Unitrol™ branded siren tones such as Wail, Yelp, Futura, Hi-Lo, Ultra Hi-Lo, Alarm, Air Horn, and Hetro. PA, radio rebroadcast, and Air Horn are standard in the Pathfinder. Pathfinder also includes (2) serial ports to be used with the FS Convergence Network devices such as light bars or directional warning lights for easy “plug-n-play” installation.

Other amplifier features include horn ring transfer (TAPII, Timer or Hands Free), Park, Ignition, and (4) general purpose inputs for trunk/door release, gun lock, intrusion alarms and monitoring K9 temperature systems. The polarity of each input is programmable except for ignition.

Timer Feature

The Pathfinder built-in timer feature senses ignition ON/OFF and allows the selection of multiple time settings. Various devices can be wired to relay outputs on the Pathfinder amplifier (such as in-car video DVRs, radios, and laptop chargers), and a security shotgun timer is provided to minimize the possibility of unauthorized shotgun release. Pathfinder timer feature allows the end user to avoid the extra cost of an external timer per vehicle by allowing each device to be turned off at a different time, unlike many one setting external timers used by departments.

Integrated Rumbler® Capability

The Pathfinder is available with built-in Rumbler® Intersection Clearing capability. This allows the Pathfinder to produce a Rumbler tone without the need for a separate externally mounted amplifier. Rumbler capability requires the purchase of Rumbler woofers and vehicle specific mounting kit. Dual-tone capability cannot be utilized with the Rumbler capability unless a complete RUMBLER-3, which includes the additional amplifier, is purchased.

- Pathfinder + (1) 100 W siren speaker = single tone and standard PA
- Pathfinder + (2) 100 W siren speakers = dual tone and standard PA
- Pathfinder + (1) 100 W speaker + (1) or (2) Rumbler woofers = single tone, Rumbler and enhanced PA
- Pathfinder + (2) 100 W siren speakers + RUMBLER-3 kit (includes two woofers) = Rumbler, dual tone siren, and standard PA (one channel will Rumble)
- Pathfinder + (1) or (2) Rumbler woofers + (2) 100 W siren speakers + MS4000 = dual tone, Rumbler, and enhanced PA



Steady Burn Models

Exterior lights are available as steady burn models for use with the Pathfinder™ Siren. The combination of Steady Burn models and the Pathfinder Siren allow the Pathfinder to control lights around the vehicle by utilizing flash patterns in the siren, syncing/alternating light heads, and dimming light heads.



FS Vehicle Integration/On-Board Diagnostics Integration (OBDII)

The FS Vehicle Integration is a simple plug-in connection using the existing vehicle CAN bus system. The FS Vehicle Integration uses a vehicle specific cable (sold separately) to seamlessly integrate with the vehicle allowing light and siren control with vehicle events such as door open, headlight, brake, speed, park, etc. The use of the FS Vehicle Integration removes the need to separately wire certain options such as horn ring transfer or ignition.



2016	2017	2018	2019	2020
Dodge Durango	Ford Police Interceptor Utility	Chevrolet Tahoe	Dodge Durango	Ford Police Interceptor Utility
		Chevrolet Silverado	Ford F-150	
		Dodge Charger	Ford Police Interceptor Utility	
		Dodge Durango	Dodge Charger	
		Ford F-150	Ford Police Interceptor Sedan	
		Ford Police Interceptor Sedan		
		Ford Police Interceptor Utility		
		Dodge Ram 1500		

Programming Software Features

The Pathfinder Configuration Software is available as a download from the FS website and siren configurations can be created via laptop computer. Configured programs can be extracted, modified, and stored for ease of service and re-use. The Federal Signal Convergence Network allows the user to "plug-n-play" simply by connecting the siren to the vehicle's light bar.

Pathfinder gives the user the ability to clone an entire fleet of siren functions. The user simply connects the Pathfinder to a PC and downloads the functions of the programmed software onto a USB drive to download functions to each siren.



Specifications

	PF200	PF200R	PF200H	PF200S17	PF200S6	PF200S4
Input Voltage				12/24 VDC		
Standby Current				Less than 0.1 A		
Operating Temperature				-40°C to +80°C		

Amplifier Physical Specifications

Height				2.5 in (6.4 cm)		
Width				6.0 in (15.2 cm)		
Depth				8.4 in (21.3 cm)		

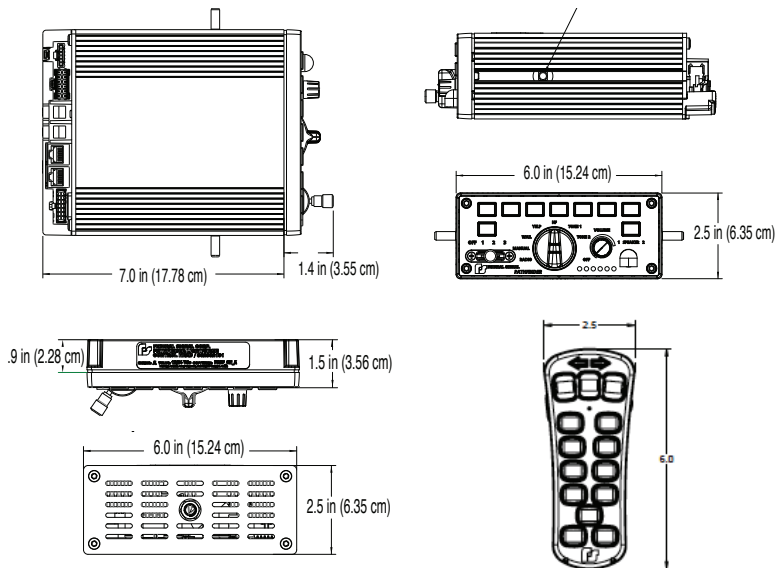
Control Head Physical Specifications

Height	N/A	2.5 in (6.4 cm)	6.0 in (15.2 cm)	3.2 in (8.3 cm)	2.8 in (7.1 cm)	1.6 in (4.1 cm)
Width	N/A	6.0 in (15.2 cm)	2.5 in (6.4 cm)	6.8 in (17.3 cm)	2.6 in (6.6 cm)	3.5 in (8.9 cm)
Depth	N/A	1.4 in (3.5 cm)	1.3 in (3.3 cm)	1.6 in (4.1 cm)	1.1 in (2.8 cm)	1.0 in (2.5 cm)

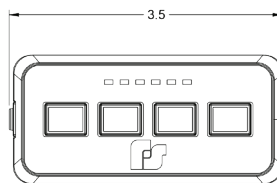
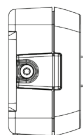
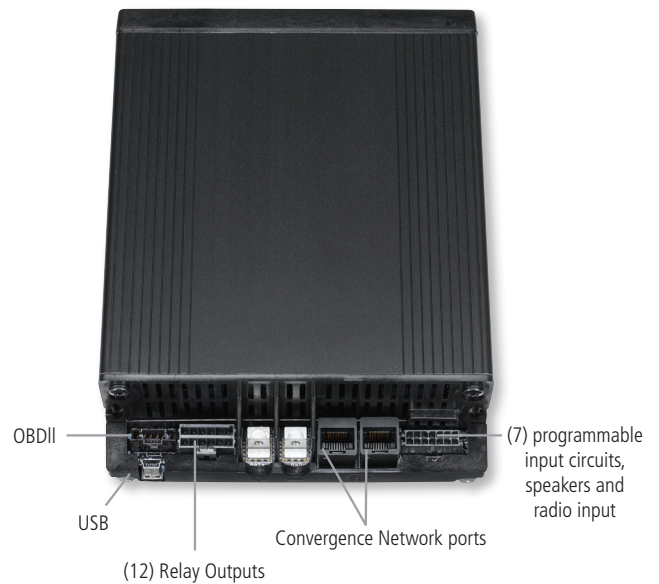
Ship Weight

3.9 lbs (1.8 kg)

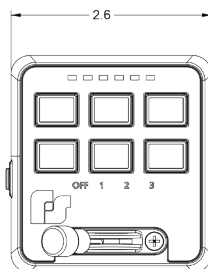
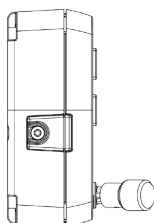
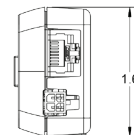
Pathfinder Dimensions



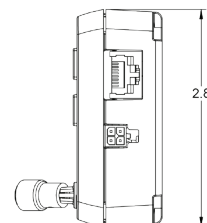
Top View of PF200



4 Button controller



6 Button controller



PF200S6	Siren/Light Controller with 6 button controller, 100/200 W, OBDII integration capability, integrated Rumbler capability and Integrated dual-tone capability
PF200S4	Siren/Light Controller with 4 button controller, 100/200 W, OBDII integration capability, Integrated Rumbler capability and integrated dual-tone capability
PF100	Siren/Light Controller with self-contained controls, 100 W, OBDII integration capability
PF100H	Siren/Light Controller with handheld controller/ microphone, 100 W, OBDII integration
PF200	Siren/Light Controller with self-contained controls, 100/200 W, OBDII integration capability, integrated Rumbler capability, and integrated dual-tone capability
PF200R	Siren/Light Controller with Remote surface mount controller, 100/200 W, OBDII integration capability, integrated Rumbler capability, and integrated dual-tone capability
PF200H	Siren/Light controller with handheld controller/ microphone, 100/200W, OBDII integration capability, integrated Rumbler capability, and integrated dual-tone capability
PF200S17	Siren/Light Controller with 17 button controller, 100/200 W, OBDII integration capability, integrated Rumbler capability, and integrated dual-tone capability

Accessories

RUMBLER-3	Siren Amp, Rumbler, secondary warning system, 12 VDC, low frequency tones, hardware kit, housing bands and cradles. Used with PF200 to utilize dual tone and Rumbler capabilities
OBD-CABLE6-1	6-ft OBDII interface cable, for use on 2018 Chevrolet Tahoe, 2017-2019 Ford Police Interceptor Utility, 2018-2019 Ford F-150, 2018 Chevrolet Silverado and 2018 Ford Interceptor Sedan
OBD-CABLE25-1	25-ft OBDII interface cable, for use on 2018 Chevrolet Tahoe, 2017-2019 Ford Police Interceptor Utility, 2018-2019 Ford F-150, 2018 Chevrolet Silverado and 2018 Ford Interceptor Sedan
OBD-CABLE6-DGCAN	6-ft OBDII interface cable, for use on 2018-2019 Dodge Charger Pursuit and 2018-2019 Dodge Durango, and 2019 Dodge Ram 2500
OBD-CABLE25-DGCAN	25-ft OBDII interface cable, for use on 2018-2019 Dodge Charger Pursuit and 2018-2019 Dodge Durango, and 2019 Dodge Ram 2500
MNCT-SD	¼" jack microphone
RMK	Remote extension kit for ¼" jack microphone
RBKIT1*	Single Rumbler woofer
RBKIT2*	Pair of Rumbler woofers

*Vehicle specific Rumbler brackets sold separately

EXPMOD-2	Expansion Module, (18) solid state programmable relay outputs, (16) 7.5 Amp flashing outputs and (2) 20 Amp control outputs
EXPHARN01	Rear taillight connection wire harness for use with expansion module, Dodge Charger Pursuit, 2015-2019
EXPHARN02	Rear taillight connection wire harness for use with expansion module, Chevrolet Tahoe, 2015-2019
EXPHARN03	Rear taillight connection wire harness for use with expansion module, Ford Interceptor Utility 2020

*Vehicle specific Rumbler brackets sold separately

Steady Burn Models

MicroPulse Ultra Steady Burn Models

MPS620UX-BW	12-LED light head, Blue/White, Clear lens
MPS620UX-RW	12-LED light head, Red/White, Clear lens
MPS620UX-BA	12-LED light head, Blue/Amber, Clear lens
MPS620UX-BR	12-LED light head, Blue/Red, Clear lens
MPS620UX-RA	12-LED light head, Red/Amber, Clear lens
MPS1220UX-BW	24-LED light head, Blue/White, Clear lens
MPS1220UX-RW	24-LED light head, Red/White, Clear lens
MPS1220UX-RB	24-LED light head, Red/Blue

MicroPulse Wide Angle Steady Burn Models

MPSW9X-BW	12-LED light head, Blue/White
MPSW9X-RW	12-LED light head, Red/White

416900 Corner LEDs Steady Burn Models

416900X-BW	Dual color Corner LED with in-line flasher, Steady burn, Blue/White
416900X-RW	Dual color Corner LED with in-line flasher, Steady burn, Red/White

416300 Series Steady Burn Models

416300X-B	(3) LED light head, steady burn, Blue
416300X-R	(3) LED light head, Steady burn, Red

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