

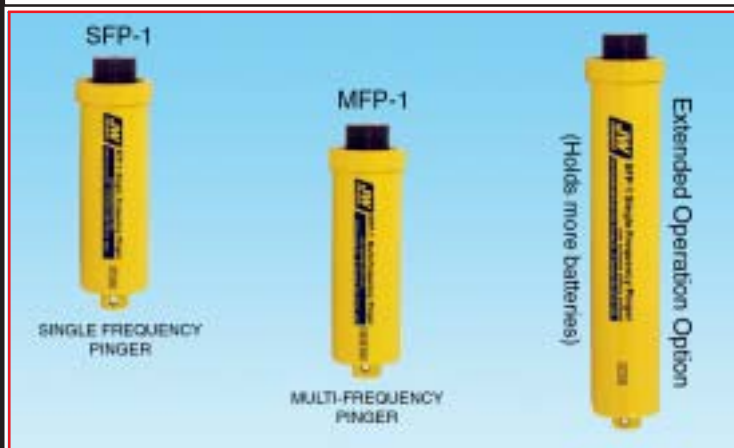


JW FISHERS MFG INC

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TECHNICAL DATA SHEET



- OPERATOR ADJUSTABLE OUTPUT POWER, PULSE WIDTH, AND PULSE REPETITION RATE
 - MANUAL TURN-ON OR WATER ACTIVATED
 - DIFFERENT FREQUENCIES AVAILABLE
 - USES STANDARD 9 VOLT BATTERIES
 - EXTENDED OPERATING LIFE OPTION (Longer Housing Holds More Batteries)
 - DELAYED START OPTION (1 Minute To 99 Days)
 - 1,000 FOOT OPERATING DEPTH
 - 2 YEAR WARRANTY
- ADDITIONAL FEATURES FOR MFP-1**
- 60 OPERATOR SELECTABLE FREQUENCIES

SFP-1 and MFP-1 Pingers

Pingers are devices that generate acoustic signals underwater. They are used to mark an underwater site or piece of equipment so a returning diver, using a pinger receiver, can locate the exact spot. Pingers are available with different transmit frequencies so several can be deployed in the same general area without interference from each other. The diver adjusts his pinger receiver to the frequency of the desired pinger and the receiver leads him directly to it.

JW Fishers family of commercial grade pingers include both the Single Frequency Pinger (SFP-1) and the Multifrequency Pinger (MFP-1). The SFP-1 is available in several frequencies one of which is specified at time of order (22, 32, 40, or 50kHz). The MFP-1 has user selectable frequencies from 20 to 50 kHz in 500 Hz increments. The operator selects one of 60 different frequencies before deploying the pinger. Many pingers can be deployed in the same general area, each broadcasting at a different frequency. This enables a diver with a pinger receiver to pinpoint the exact location of each pinger without interference from the other pingers.

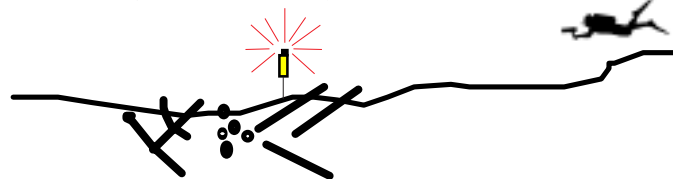
Fishers pingers are very flexible allowing the operator to select the number of pulses per second, the length of each pulse, and the output power. The length of each pulse and output power adjustments allow the operator to adjust the distance the pingers can be detected. With the MFP-1 the transmission frequency can be selected by the operator before deployment. These features make the SFP-1 and the MFP-1 extremely versatile and the first choice for almost any application.

Power for the pingers is supplied by two standard alkaline 9 volt batteries which last from a few days to many months, depending on output power and pulse selection. For long durations lithium batteries can be used. A longer housing is also available which holds six batteries to give 3 times the normal operating time. If the longer housing is chosen, an optional Delayed Start is also available which delays the start from 1 minute to 99 hours in 1 minute increments (three sets of switches: minutes, hours, and days). If Delayed Start

option is selected then the unit can hold a maximum of 5 batteries.

The pinger can be automatically activated when put in the water, or manually activated with a switch.

All Fishers pingers are covered by a full TWO YEAR WARRANTY.



SPECIFICATIONS

SFP-1	MFP-1
• Frequency 22, 32, 40, or 50kHz	20 to 50kHz.
• Power output (adj)1, .5, 2, 8w1, .5, 2, 5w. 155 to 180 db 155 to 177 db.
• Pulse length (adj) 1, 3, 5ms	2, 3, 4ms.
• Pulses per sec (adj) 2, 1, 1 per 2 sec	2, 1, 1 per 2 sec.
• Batteries (alkaline or lithium) two 9 v	two 9 v. note: extended battery option adds four more batteries.
• Battery lifefrom days to months depending on battery type and output power.	 note: extended battery option yields 3 times battery life.
For both SFP-1 and MFP-1:	
• Weight..... 20 oz air	negative 1 oz water.
• Size 2.4 in dia x 9 in long.	
extended batt option 34 oz air	negative 2 oz water. 2.4 in dia x 14 in long.
• Material	high impact PVC.
• Color	yellow.
• Depth rating	1,000 feet.

OPTIONS

- Extended operating life (longer housing for extra batteries).
- Delayed Start (1 minute to 99 days).
- Different frequencies available for SFP-1 (specify at time of order).
- Carrying case (holds two pingers).