

MANUAL: *Oscillating Fixed Monitor*

INSTRUCTIONS FOR SAFE OPERATION AND MAINTENANCE

This instruction manual is intended to familiarize firefighters and maintenance personnel with the operation, servicing and safety procedures associated with the Oscillating Fixed Monitor.

This manual should be kept available to all operating and maintenance personnel.

▲ WARNING

Do not attempt to modify the oscillating mechanism to fit any other monitor. To do so will cause the reaction force of the nozzle to be misaligned with the center of rotation. The monitor may spin very fast and could cause injury or death.

▲ WARNING

Read instruction manual before use. Operation of this device without understanding the manual and receiving proper training is a misuse of this equipment. A person who has not read and understood all operating and safety instructions is not qualified to operate the Oscillating Fixed Monitor.

▲ WARNING

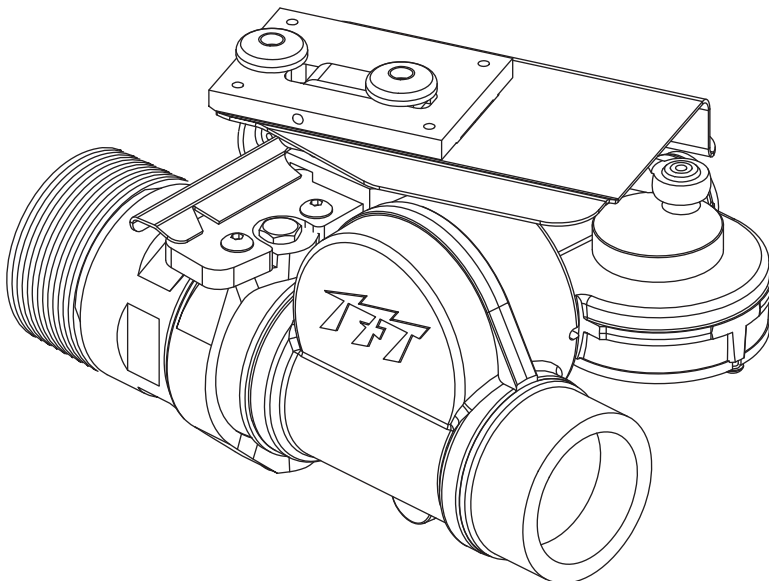
Keep hands and fingers away from moving parts of the oscillating unit when water is flowing. There are moving parts that can pinch fingers and hands. Keep all guards in place.

▲ WARNING

Injury can result from an inadequately supported monitor. The piping structure must be able to withstand the nozzle reaction force which may be as high as 350 lbs (160kg).

▲ CAUTION

The Oscillating Fixed Monitor is intended for use in a horizontal axis ONLY. Off-axis or vertical sweep orientations may cause lack of oscillation or disengagement of the oscillation mechanism resulting in an inadequate protective coverage. Do not orientate the Oscillating Fixed Monitor with the sweep pattern operating in any other axis than horizontal.



Maximum Operating Pressure
175 psi (12 bar)

Maximum Flow
500 gpm (2000 l/min)



PERSONAL RESPONSIBILITY CODE

The member companies of FEMSA that provide emergency response equipment and services want responders to know and understand the following:

1. Firefighting and Emergency Response are inherently dangerous activities requiring proper training in their hazards and the use of extreme caution at all times.
2. It is your responsibility to read and understand any user's instructions, including purpose and limitations, provided with any piece of equipment you may be called upon to use.
3. It is your responsibility to know that you have been properly trained in Firefighting and /or Emergency Response and in the use, precautions, and care of any equipment you may be called upon to use.
4. It is your responsibility to be in proper physical condition and to maintain the personal skill level required to operate any equipment you may be called upon to use.
5. It is your responsibility to know that your equipment is in operable condition and has been maintained in accordance with the manufacturer's instructions.
6. Failure to follow these guidelines may result in death, burns or other severe injury.



Fire and Emergency Manufacturers and Service Association
P.O. Box 147, Lynnfield, MA 01940 • www.FEMSA.org

1.0 MEANING OF SAFETY WORDS

A safety related message is identified by a safety alert symbol and a signal word to indicate the level of risk involved with a particular hazard. Per ANSI standard Z535.4-1998 the definitions of the three signal words are as follows:



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



NOTICE is used to address practices not related to personal injury.

2.0 GENERAL INFORMATION

The Oscillating monitor can be used for exposure protection, cooling, or any other situation where it is desirable to have a monitor sweep back, and forth. It is intended for monitoring on fixed piping or directly on fire truck pump outlets. The Oscillating monitor operates between 20 degrees either side of center. The maximum flow rate is 500 gpm.

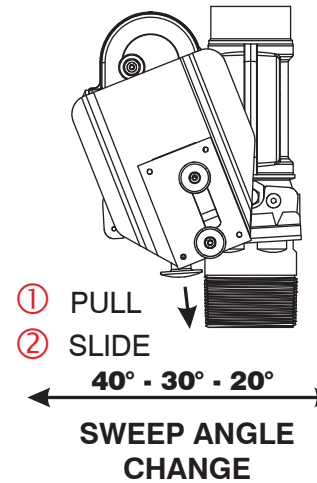
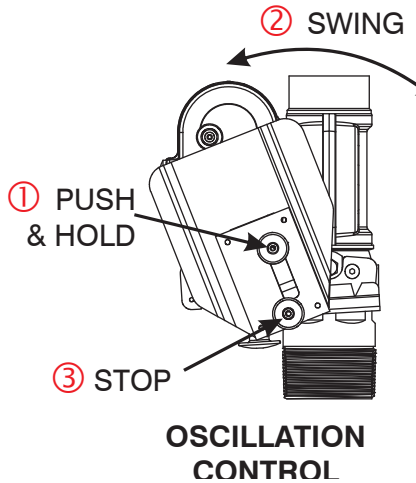
The oscillating mechanism is driven by a turbine wheel. A worm gear drive reduces the speed and increases the torque of the turbine wheel. A simple crank mechanism makes the outlet of the oscillating monitor and the nozzle attached to it move back and forth. The horizontal sweep can be set for a 20, 30 or 40 degree sweep. The oscillating mechanism can be disengaged and the stream can be aimed manually.

The speed of the oscillator is a function of flow rate.

3.0 USE OF OSCILLATING MONITOR

3.1 TO ENGAGE THE OSCILLATING MECHANISM

If the nozzle moves freely left to right by hand, the oscillating mechanism is not engaged. Depress the green START KNOB and move the nozzle from one side to the other until the roll pin drops in the groove of the connecting rod. The minimum flow required to oscillate is 175 gpm (650 l/min).



3.2 TO DISENGAGE THE OSCILLATING MECHANISM

To operate the oscillating monitor manually, depress the STOP KNOB. The green START KNOB will pop up to indicate the mechanism is disengaged. The crank and connecting rod will continue to move. Move the nozzle to the desired position by hand.

4.0 COVERAGE AREA OF OSCILLATING MONITOR

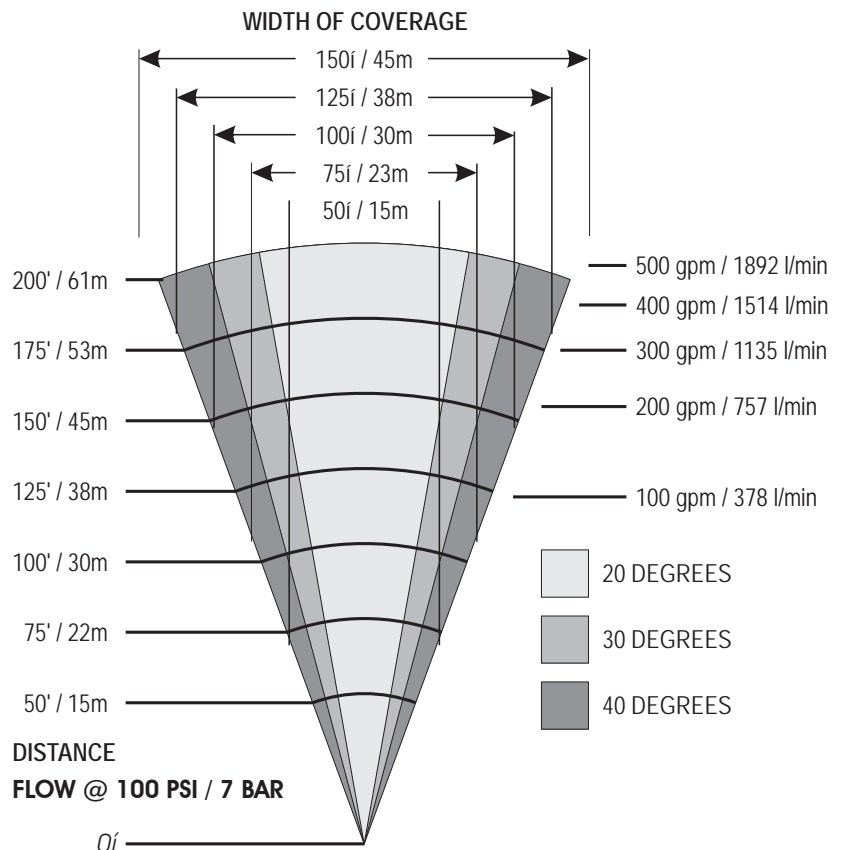
To adjust the area of coverage, pull the silver knob and move it left or right until the pointer aligns with the desired angle of coverage.

To protect the gears from overload, the oscillating mechanism will disengage if sufficient force is applied to either side of the oscillator outlet. The green START KNOB will pop up to indicate the mechanism is disengaged. See the instructions above to engage the drive mechanism.

Oscillation speed: The chart shows how many times per minute the oscillator makes one complete cycle as a function of flow. The higher the flow, the faster it oscillates.

APPROXIMATE CYCLES/MIN	GPM	L/MIN
8	175	650
13	250	1000
21	375	1500
28	500	2000

OSCILLATION SPEED



COVERAGE AREA OF OSCILLATING MONITOR
TOP VIEW

5.0 INSTALLATION AND MAINTENANCE

The oscillating fixed monitor is intended for intermittent use with fresh water in fire protection and extinguishment applications. All parts are permanently lubricated and should not require maintenance beyond normal inspections. The waterway should be drained between uses.



The monitor may be damaged if frozen while containing sufficient amounts of water. Such damage may be difficult to detect visually and can lead to possible injury or death. Any time the monitor is subject to possible damage from freezing, it must be hydrostatically tested by qualified personnel before being considered safe for use.



Use with salt water is permissible provided nozzle is thoroughly cleaned with fresh water after each use. The service life of the nozzle may be shortened due to the effects of corrosion and is not covered under warranty.

6.0 WARRANTY

Task Force Tips, Inc., 3701 Innovation Way, Valparaiso, Indiana 46383-9327 ("TFT") warrants to the original purchaser of its Oscillating Fixed Monitor ("equipment"), and to anyone to whom it is transferred, that the equipment shall be free from defects in material and workmanship during the five (5) year period from the date of purchase.

TFT's obligation under this warranty is specifically limited to replacing or repairing the equipment (or its parts) which are shown by TFT's examination to be in a defective condition attributable to TFT. To qualify for this limited warranty, the claimant must return the equipment to TFT, at 3701 Innovation Way, Valparaiso, Indiana 46383-9327, within a reasonable time after discovery of the defect. TFT will examine the equipment. If TFT determines that there is a defect attributable to it, it will correct the problem within a reasonable time. If the equipment is covered by this limited warranty, TFT will assume the expenses of repair.

If any defect attributable to TFT under this limited warranty cannot be reasonably cured by repair or replacement, TFT may elect to refund the purchase price of the equipment, less reasonable depreciation, in complete discharge of its obligations under this limited warranty. If TFT makes this election, claimant shall return the equipment to TFT free and clear of any liens and encumbrances.

This is a limited warranty. The original purchaser of the equipment, any person to whom it is transferred, and any person who is an intended or unintended beneficiary of the equipment, shall not be entitled to recover from TFT any consequential or incidental damages for injury to person and/or property resulting from any defective equipment manufactured or assembled by TFT. It is agreed and understood that the price stated for the equipment is in part consideration for limiting TFT's liability. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above may not apply to you.

TFT shall have no obligation under this limited warranty if the equipment is, or has been, misused or neglected (including failure to provide reasonable maintenance) or if there have been accidents to the equipment or if it has been repaired or altered by someone else.

THIS IS A LIMITED EXPRESS WARRANTY ONLY. TFT EXPRESSLY DISCLAIMS WITH RESPECT TO THE EQUIPMENT ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. THERE IS NO WARRANTY OF ANY NATURE MADE BY TFT BEYOND THAT STATED IN THE DOCUMENT.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.