



# 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.*

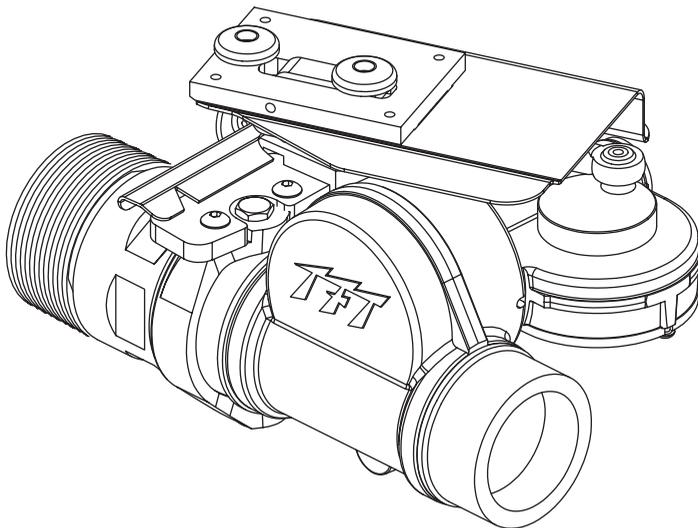
*This manual should be kept available to all operating and maintenance personnel.*

**▲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).



**Maximum Operating Pressure  
175 psi (12 bar)**

**Maximum Flow  
500 gpm (2000 l/min)**

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

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

**▲CAUTION** CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate 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 uncoupled 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). 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.

#### 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.

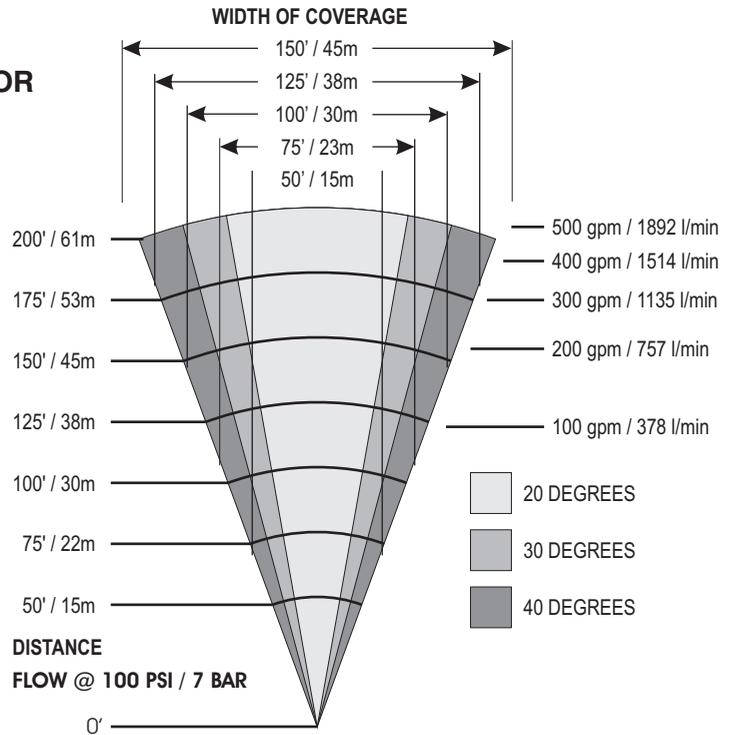
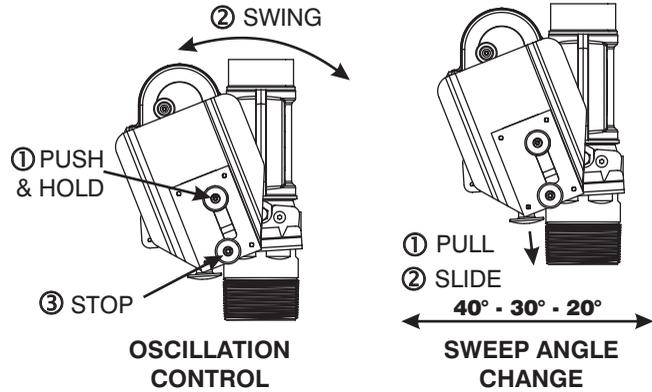
#### 4.0 COVERAGE AREA OF OSCILLATING MONITOR

To 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**



**COVERED AREA OF OSCILLATING MONITOR**

### 5.0 WARRANTY

Task Force Tips, Inc., 2800 East Evans Avenue, Valparaiso, Indiana 46383-6940 ("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 2800 East Evans Avenue, Valparaiso, Indiana 46383-6940, 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.

**TASK FORCE TIPS, Inc.**  
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