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# ANTI-RIOT

## REMOTE CONTROL WATER CANNON / MONITOR

## PSKD10-30B-AR

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# FIXED REMOTE CONTROL MONITOR SERIES
## (NOZZLE EXTENDED VERSION) PSKD10-30B-AR
## ANTI-RIOT WATER CANNON / MONITOR

FOREDE ® PSKD10-30B-AR Series cannon/monitor is a straight stream and fog, pulse integrated cannon(Pulse model needs equipped with Pneumatic valve,if needed please specify before ordering), which can switch between SS/FOG and pulse modes in one nozzle, and can realize the dispersive spray of stimulants or dyes in a large area. By jetting high-pressure water jets, it can disperse illegally gathering crowds, and use pulse impact to knock down close-range walls, fences, thin earth walls, and destroy glass windows in private houses. The jet flow pressure can be adjusted with the target distance, the closer the distance is, the lower the flow pressure will be to avoid hurting people at close range.

Modern police anti-riot water cannon/monitor. Since the 1990s, the security forces of various countries have been fighting terrorism, stopping riots, maintaining peace, and ensuring national security and social stability. The tasks of ensuring national security and social stability have become more and more arduous. Under the urging of tasks, non-lethal weapons have developed rapidly. Modern police anti-riot water cannons/monitors are large-scale non-lethal weapons and equipment for dealing with mass riots, and they have played an important role in actual combat.

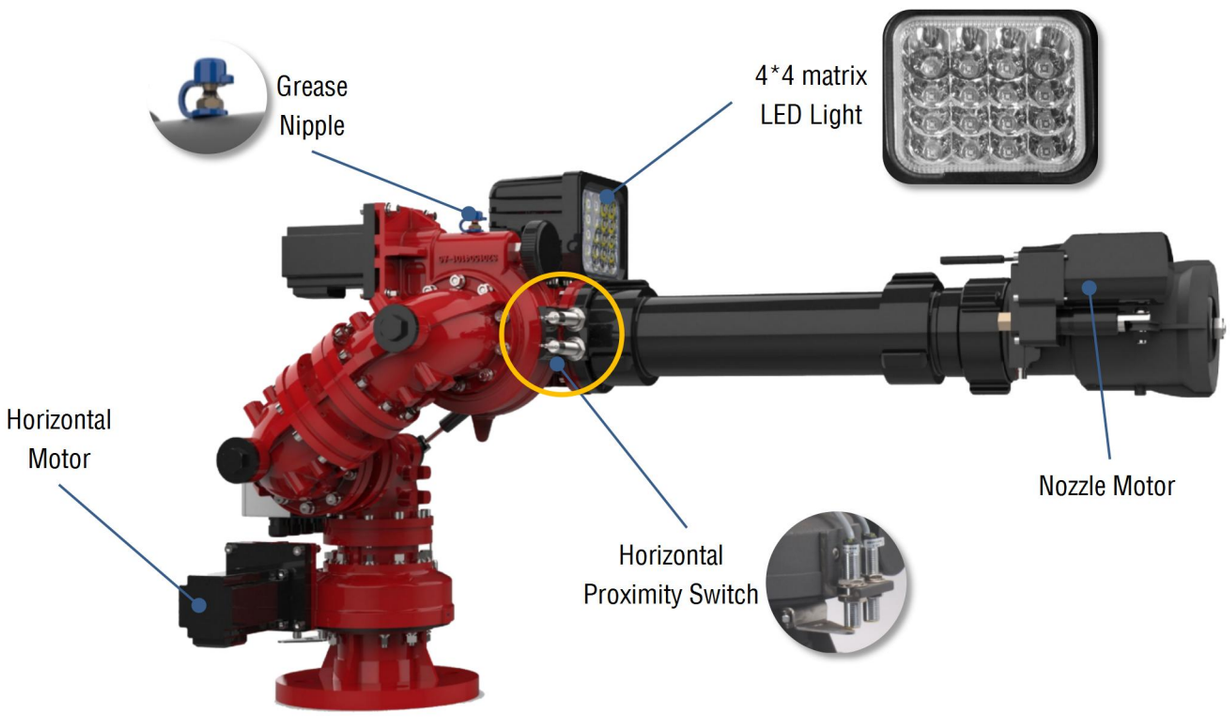
### FEATURES

- Light aluminum alloy construction
- Straight stream and Fog pattern
- Nozzle has a built-in Stream Sharper
- Strong Light for night vision capabilities
- HD camera and LED monitor pad (Optional)
- Pulse model available if equipped with Pneumatic valve
- Complete with full control system
- IP67 waterproof
- Long service and easy repair
- ➢ Flow rate 600LPM-1200 LPM-1800 LPM adjustable
- ➢ Water Jetting Range: Max ⩾60 meters
- ➢ Rated Working Pressure: 14 bar (1.4MPa)
- ➢ Working Pressure Range: 8-16 bar (0.8-1.6MPa)
- ➢ Testing Pressure: 24 bar (2.4MPa)
- ➢ Weight: 30kg
- ➢ Dimension: L:1160*W:380*H410 mm
- ➢ Color: Dark Grey standard

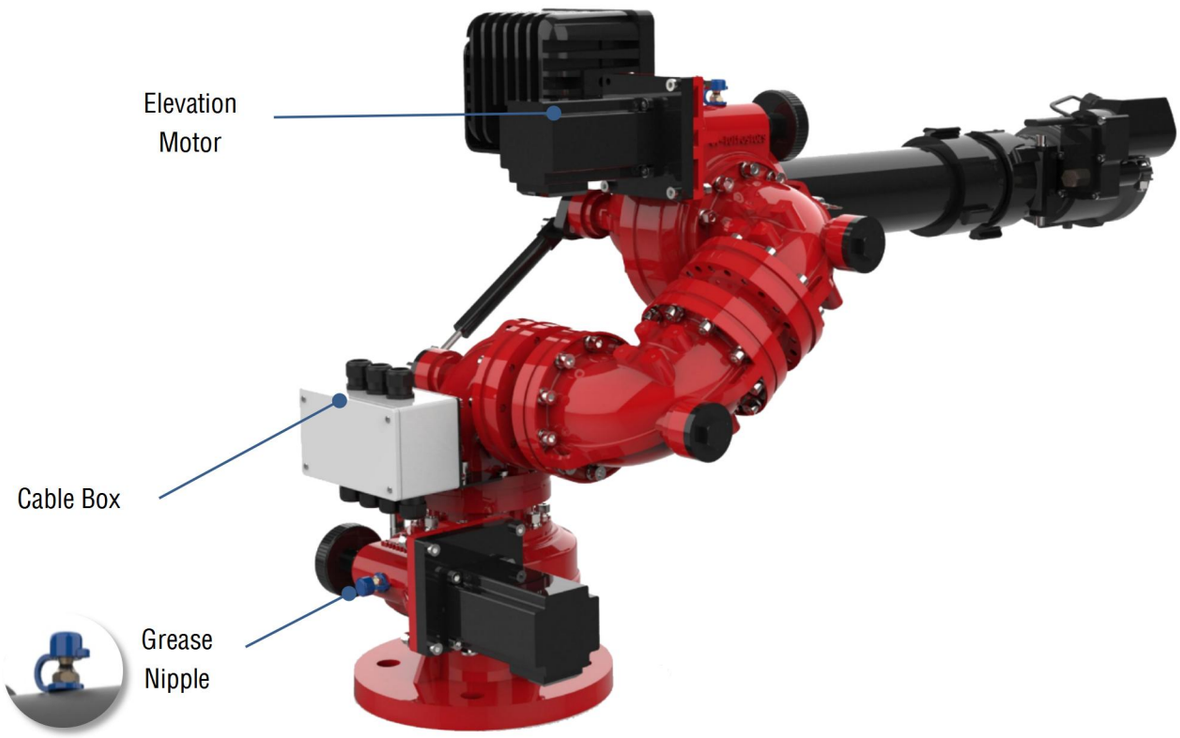

| Material | |
|---|---|
| Body | Hard Anodized Aluminum alloy |
| Nozzle | Hard Anodized Aluminum alloy |
| Steam sharper | Hard Anodized Aluminum alloy |
| Protection cover | Carbon Steel |

| SS/FOG PATTERN | |
|---|---|
| **Model** | **PSKD10-30B-AR** |
| **Flow Rate** | 600LPM-1200LPM-1800LPM Manual adjustable |
| **Working Pressure** | 8-16 bar (0.8-1.6MPa) |
| **Water Jetting Range** | ≥ 60 meters |
| **Max Range of Motion** | -15.5° to +78° Vertically, 270° Rotation, degree customized |
| **Turning Speed** | 12°/Second rotation,8°/Second vertical, speed customized |
| **Power Supply** | DC 24V is standard, AC 220V optional |
| **Waterway Size** | 2.5" (65mm) |
| **Outlet** | 2.5" NH Connection |
| **Inlet** | 3" BS 4504 Flange is standard (Thread inlet, other sizes & std. are available) |

| PULSE PATTERN | |
|---|---|
| **Water Jetting Range** | ≥ 52 meters |
| **Effective Range** | ≥ 33 meters |
| **Spray Interval** | ≤3 sec |
| **Pulse Flow Rate** | ≥ 720LPM |
| **Control Way** | by a pneumatic valve (if needed please specify before ordering.) |




## SIDE A DETAILS VIEW




## SIDE B DETAILS VIEW

# VMCS-01 CONTROL SYSTEM COMPONENT LIST

| NAME | Monitor Device (Standard) | RC Receiver (Standard) |
|---|---|---|
| IMAGE |  |  |
| MODEL NO. | PSZC-65B-AR | CTRL - RCR01 |
| DESCRIPTION | DC 24V is standard, AC 220V optional | Max. 150 meters RC Distance |
| | 3'' inlet flange, others customized | IP67 Standard Sealed |

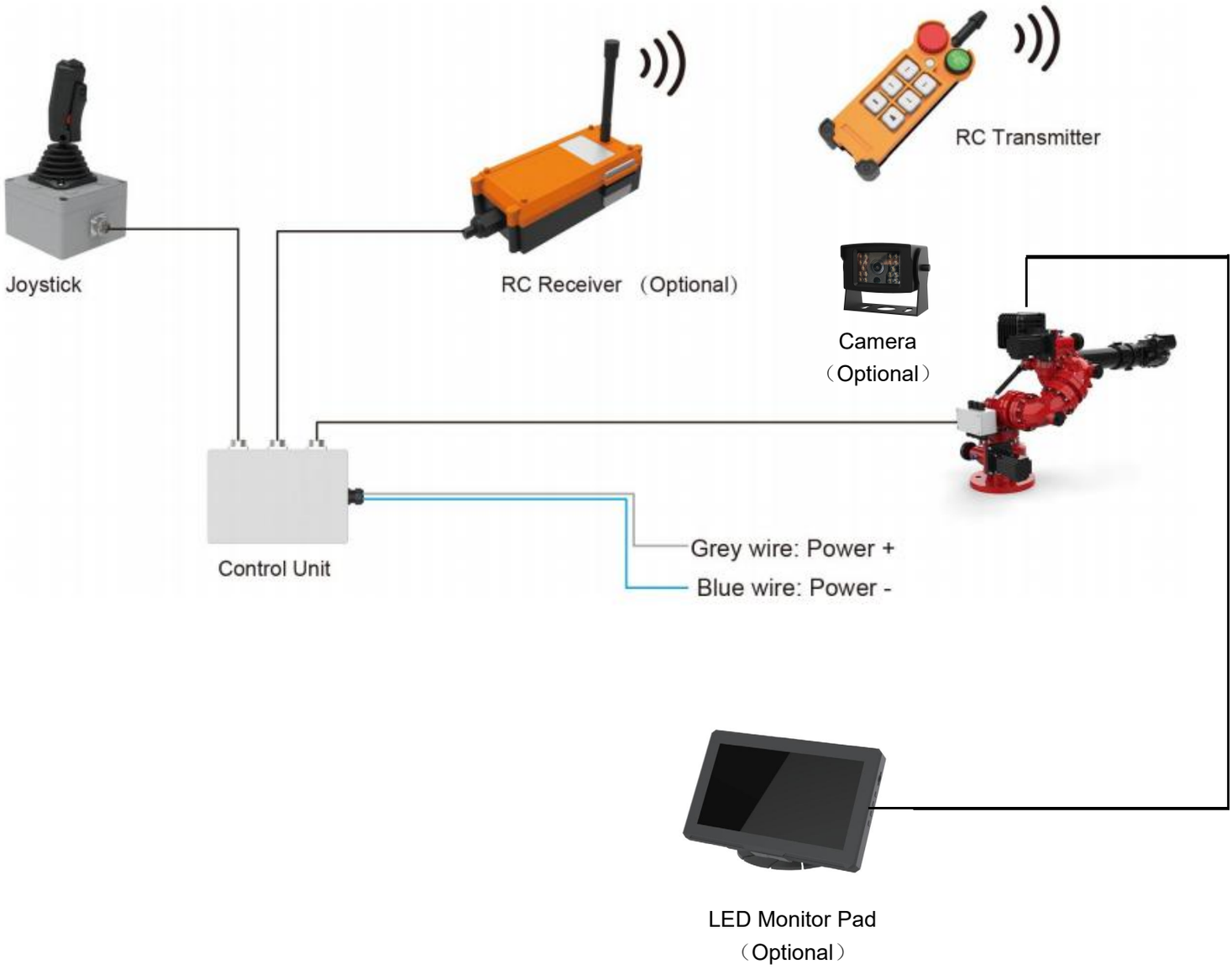
| NAME | Joystick (Standard) | RC Transmitter (Standard) |
|---|---|---|
| IMAGE |  |  |
| MODEL NO. | CTRL-J01 | CTRL - RCT01 |
| DESCRIPTION | Up-down-left-right,straight stream/fog function | Max. 150 meters RC Distance |
| | IP67 Standard Sealed | IP67 Standard Sealed |

| NAME | Cables (Standard) | Control Unit (Standard) |
|---|---|---|
| IMAGE |  |  |
| MODEL NO. | CTRL-CB01 / CTRL-CB02 | CU-01 |
| DESCRIPTION | Joystick to control unit cable- 5m length | Aluminum cover |
| | Monitor to control unit cable- 12m length | IP67 Standard Sealed |
| | Other length cables please specify | |

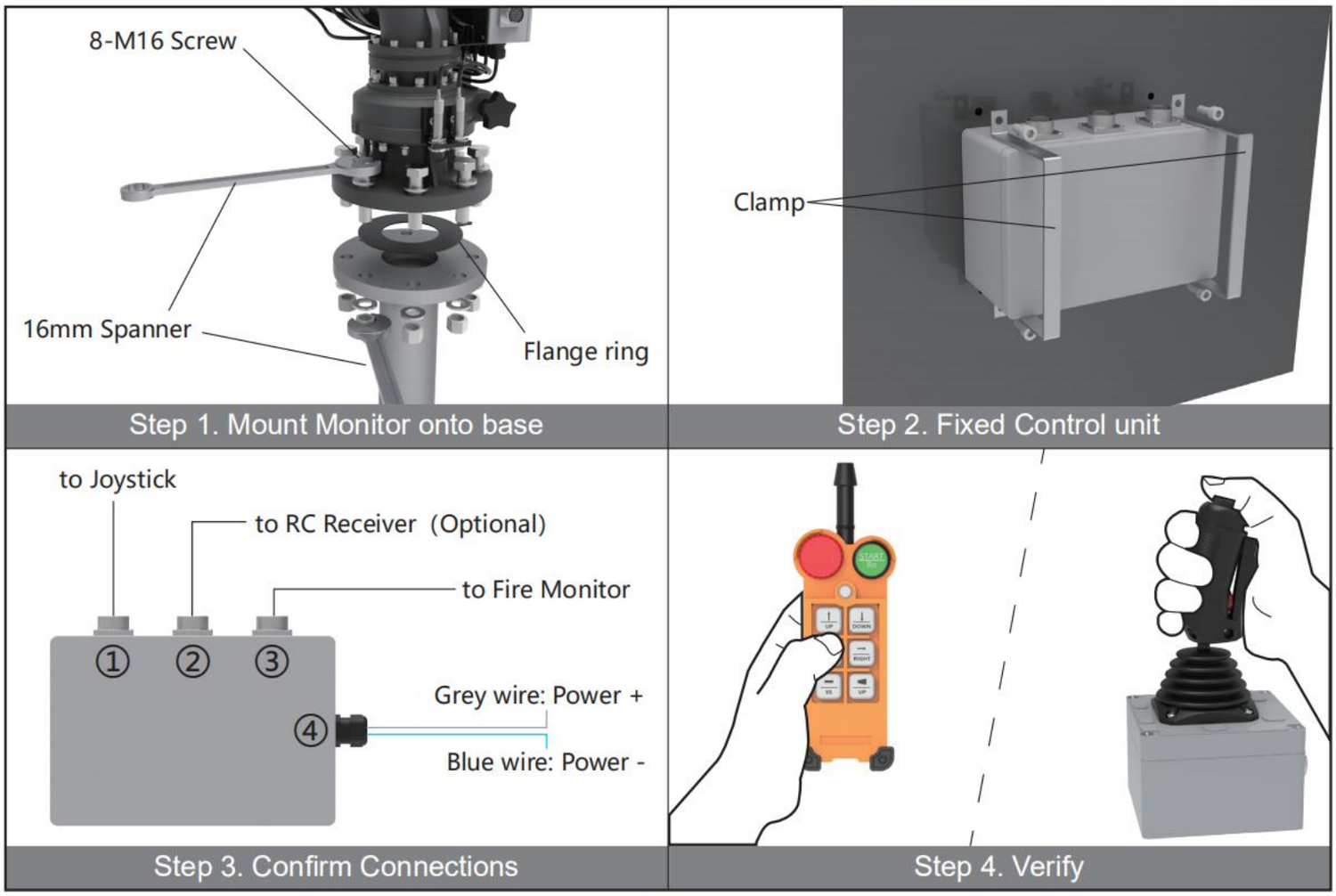
* Below parts are for optional, please kindly specify if needed

| NAME | LED Monitor Pad (Optional) | Pneumatic Valve (Optional) | HD Camera (Optional) |
|---|---|---|---|
| IMAGE |  |  |  |
| MODEL NO. | XSQ-M01 | DDF-SX | SXT-001 |
| DESCRIPTION | As camera output screen; Control device with touch screen | DC 24V is standard, AC 220V optional | Monitoring |
| | | 3 inch / DN80 | |
| | | Rating Power 15W | |

## VMCS-01 CONTROL SYSTEM WIRING



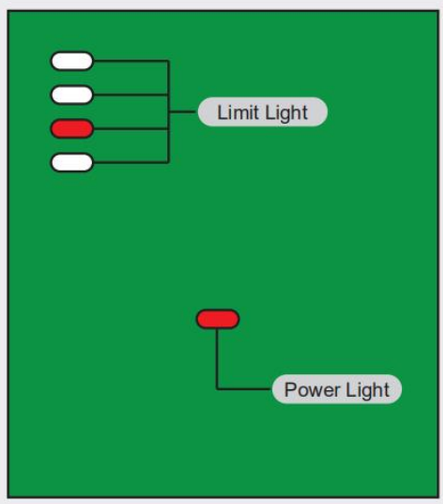
# INSTALLATION




When the cannon stop moving no matter how we operate, then we can do as below:

1 If there are enough parts to exchange, then try to find out the faulty parts by exchanging parts.

2 If not, open the control unit and check the power light whether it is on. If it is on, there is no problem on power. Then check the 4 limit lights whether they turn on respectively when the joystick moves to each limit. (left, right, up and down). (see drawing on the right)

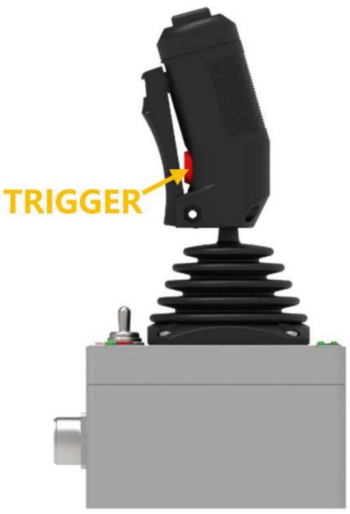



3 If all are ok, then check the sensors/limits on the cannon body. If the sensor lights are on all the time when you move the joystick, then the sensor is defective. The light only turns on when the cannon is close to the sensor. That is correct.

4 If you can not find out the problem, then contact the service people.

# VMCS-01 CONTROL SYSTEM OPERATION INTRODUCTION

The Fire Monitor is able to be controlled by Joystick and RC transmitter:


- Joystick Operation Guide:

| Buttons | Description |
|---|---|
| REC | Red Indicator Light,press this button to record the movement of the monitor, press "PLAY" to stop recording. (Not appropriate for this model) |
| PLAY | Green Indicator Light,press this button to start play the recorded movement of the monitor, press any button to stop. (Not appropriate for this model) |
| VALUE | Toggle switch, (Optional)<br>Middle position - close inlet valve;<br>Turn to"TRIGGER" side: Let Trigger take over the control of the inlet valve;<br>Turn to"OPEN" side -open the inlet valve. |
| POWER | Green Indicator Light, Always on to indicate the power on-state. |
| AUX1 | Reserved auxiliary button,customized function. |
| AUX2 | Reserved auxiliary button,customized function. |
| FOG/SS | Fog spray / Straight stream (FOG button: Flat spray for Foam monitor with blabbermouth) |
| TRIGGER | Pull to open the inlet valve, release to close. |
| Handle | Turn up-down-left-right of the fire monitor. |

PS: Pulse pattern model with different button.


| BUTTONS | DESCRIPTION |
|---|---|
| EMERGENCY STOP | The red button,press to disconnect the signal connection with Fire Monitor |
| START | The green button,connect the signal connection with Fire Monitor |
| JET | Straight stream |
| FOG | Fog spray |
| LEFT | Turn left the nozzle horizontally |
| RIGHT | Turn right the nozzle horizontally |
| UP | Turn up the nozzle vertically |
| DOWN | Turn down the nozzle vertically |
| VALVE ON | Open the electrical valve (Not standard) |
| VALVE OFF | Close the electrical valve (Not standard) |

PS: Pulse pattern model with different button.

## SAFETY INFORMATION

- All personnel who may be expected to operate this equipment must be thoroughly trained in its safe and proper use.
- Before flowing water from this device, check that all personnel (fire service and civilian) are clear of the stream path. Also confirm stream direction will not cause avoidable property damage.
- Become thoroughly familiar with the hydraulic characteristics of this equipment, as well as the pumping system used to supply it.
- Whenever possible, this equipment should be operated from remote location to avoid exposing personnel to dangerous fire conditions.
- Always open and close valves slowly to avoid water hammer.
- After each use, and on a scheduled basis, inspect equipment per instructions in the maintenance section.
- Keep fingers and hands clear of moving parts.
- Disconnect power before servicing and electric valve or electric valve controller.
- Any modifications to the electrical will destroy the IP-66 rating and void warranty coverage of the enclosure and all comp

## INSTALLATION

- Installation under the guidance of professionals, and do not install or replace parts without authorization.
- During transportation and installation, handle with care to avoid collision damage.
- The installed foundation should be able to withstand the load of the fire monitor infrastructure due to unstable factors such as jet reaction force and wind disaster.
- Fire monitors should be installed in the upwind direction of the protected place where the wind prevails all the year round.
- The pipeline must be flushed before the fire monitor is installed to prevent debris from entering the fire monitor to block the nozzle.
- After installation, the nozzle should face the object of protection, and should not face the position of the operator at any time.
- The bottom of the control cabinet of the electric and hydraulic fire monitors should be installed indoors, and should be set in a position where each turret can be directly observed. When necessary, the fire control room should be equipped with monitors and other auxiliary observation equipment.
- The fire control room should have good fireproof, dustproof and waterproof measures, and the layout of the system control device should be easy to operate and maintain.

## OPERATIONAL REQUIREMENTS AND PRECAUTIONS

- The personnel operating the fire monitor must be trained in operation and be familiar with the relevant operation process.
- The inlet pressure of water shall not be higher than the working pressure of the monitor.
- Before using the fire monitor, all personnel in front of the muzzle should be evacuated to avoid danger.
- When manually operating the fire monitor, please take the handle to avoid danger.
- When operating, it should be jetted downwind as far as possible to increase the range.

## OPERATION

**Step 1.** In the event of a fire, immediately start the fire pump set of the fire monitor system.
**Step 2.** The operator holds RC Transmitter/Joystick/Control box, and slowly opens the fire monitor inlet valve(if customer ordered the valve from us, we could equipped the valve on/off function on control system).
**Step 3.** Using RC Transmitter/Joystick/Control box to adjust the monitor working angle and rotation, to make sure water fully cover the burning material.
**Step 4.** According to the situation of the fire scene, we can use RC Transmitter/Joystick/Control box to control fire monitor achieve Straight stream or fog pattern.
**Step 5.** After using, turn off the system fire pump set.
**Step 6.** Tilt the nozzle to pour out the remaining liquid in the cavity, then put it in right position, lock the positioning and lock device.
**Step 7.** Close the inlet valve of fire monitor and check all parts which should be no damage.

## MAINTENANCE

*The maintenance of fire monitors should be handled by dedicated personnel.

❖ The fire monitor should be kept clean. After use, the nozzle should be tilted to pour out the remaining liquid in the cavity, and the exterior should be cleaned with clean water and wiped off the water stains. Dual-purpose monitor(water/foam), the interior must be rinsed with clean water, and then the accumulated water must be released.

❖ The fire monitor should be maintained regularly, and all fasteners of the fire monitor should be inspected after use and every six months. Operate the control cabinet of the electric fire monitor every three months to ensure the normal and stable operation of the motor.

❖ The meshing part of the worm gear and other rotating parts should be filled with grease for half a year to ensure flexible rotation.

❖ All parts should be kept in good condition. If the fasteners are found to be loose and other accessories are damaged, they should be repaired in time.

❖ When not in use, cover it with a rain-proof cloth. The mobile gun should be stored in a normal temperature, dry and non-corrosive place.

❖ When the working pressure of the fire monitor is found to be too high or the shooting range is short, check whether there is any blockage at the nozzle, and clear it in time.

❖ If there is leakage at each connection part of the fire monitor, check whether the seal is intact, and replace the seal in time if damaged.

❖ The rotating part of the fire monitor is not flexible, the operation is difficult, or the angle adjustment cannot reach the expected range, grease should be applied to the rotating part or the parts should be replaced in time.

❖ The control cabinet of the electric fire monitor cannot operate the motor. Check whether the connection between the control cabinet and the motor is normal. If it is connected and still cannot be operated, it should be repaired or replaced in time.

❖ In cold areas, take measures to prevent cold and frost, such as drainage and heat preservation.

When the fire monitor is used as the vehicle-mounted monitor of a fire truck, the spray tube bracket of the fire monitor should be installed and fixed to prevent bumps during driving and damage to the gun parts.

## ORDERING GUIDE

- Model Number
- Application/Control system
- Inlet Connection way, size and standard.
- Order Quantity
- Shipping/Transportation Way

***Other special requirements please contact FOREDE SALES TEAM.**

**Tips: for more related products or other firefighting equipment, please forward to our website,** www.forede.com