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> Swarn Jal (Model: A-AL20M) Tank Overflow & Empty Alarm + 20 Meter Wire, Cell Powered, Brass Sensors, 100% Shock Proof, 1-3 Years Cell/Battery Life, 1 Year Complete Guarantee Cell Powered Reserve and OverFlow Alarm + 20 Meter Wire

## Swarn Jal A-AL20M

# Swarn Jal Tank Overflow & Empty Alarm

Model: A-AL20M

## 1. INTRODUCTION

The Swarn Jal Tank Overflow & Empty Alarm system is designed to provide 24/7 monitoring of your water tank, ensuring safety and preventing water wastage due to overflow or the inconvenience of an empty tank. This cell-powered device offers a reliable and shock-proof solution for automated water level alerts in your home. It features brass sensors for accurate detection and is engineered for long battery life, providing peace of mind and efficient water management.

## 2. PRODUCT FEATURES

- **100% Shock Proof:** Designed for safety with a shock-proof build.
- **Extended Battery Life:** Operates for 1 to 3 years on a single set of 2 AA cells.
- **Water Overflow Alarm:** Alerts the user before the tank overflows, with an automatic shut-off after 45 seconds.
- **Reserve Water Alarm:** Notifies the user when the water level is low, before the tank goes empty.
- **Brass Sensors:** Equipped with high-quality brass sensors that are rust/corrosion proof, nickel plated, highly accurate, and provide strong hold.
- **Wire Breakage Warning:** Provides an indication (Red or Violet Color in LED) if the sensor wire is broken.
- **Low Battery Warning:** A short beep every two hours indicates low battery.
- **Touch Button Control:** Long touch to switch the device on/off. Short touch to view the current water level.
- **Easy Installation:** Can utilize existing overflow alarm wires, eliminating the need for new wiring.



## Water Tank OverFlow and Empty Alarm



**OVERFLOW ALARM** with that shuts off automatically after 45 seconds.



**RESERVE WATER ALARM** warns user for Low water level in the tank.



**TOUCH BUTTON:-** Long touch for switch on/off device. Short touch for shut alarm & to see current water level.



Works on **SINGLE PAIR TRANSMISSION** cable No need of expensive Cat5/6 Cable.



**LOW BATTERY WARNING:** - Short beep in Every two hours.



**WIRE BREAKAGE INDICATION:** - Red or Violet Color Indication in LED.



**SHOCK PROOF**—Runs on easily available 2 AA batteries (clock cells like Duracell)



**EASILY REPLACEABLE** with Overflow alarm unit.

**( 3 Brass Sensors are Included )**



Figure 2.1: Key features and functions of the Swarn Jal alarm system.

**( NEWLY UPGRADED SENSORS )**



**\* BRASS SENSORS  
(WAY BETTER THAN STEEL)**

- \* RUST/CORROSION PROOF**
- \* ZERO WATER CONTAMINATION**
- \* NICKLE PLATED AS WELL**
- \* HIGHLY ACCURATE**
- \* THE BEST SENSING**
- \* ELEGANT LOOKS**
- \* INTELLIGENT OPERATIONS**
- \* STRONG HOLD**

**( Brass Sensors are Included  
with the Device)**

Figure 2.2: Detailed view of the included brass sensors.

### **3. WHAT'S IN THE BOX**

Upon unboxing your Swarn Jal Tank Overflow & Empty Alarm, you will find the following components:

- Main Device/Alarm/Indicator Unit
- 3 Brass Sensors
- Sensor Hub (100% Waterproof)
- 2 AA Cells (Batteries)



Figure 3.1: Main components included in the package.



Figure 3.2: The alarm unit, sensor hub, and brass sensors.

## 4. SETUP AND INSTALLATION

Follow these steps for proper installation of your Swarn Jal Tank Overflow & Empty Alarm:

1. **Sensor Placement:** Identify the desired water levels in your tank for 'Full', 'Standard' (Normal), and 'Reserve' (Empty) alerts. Place the three brass sensors at these respective levels. Ensure the sensors are securely fastened and will not shift with water movement.
2. **Connect Sensors to Hub:** Connect the wires from the three brass sensors to the waterproof Sensor Hub. Ensure a firm connection for reliable operation.
3. **Connect Sensor Hub to Main Device:** Connect the Sensor Hub to the Main Device/Alarm/Indicator Unit using the provided 20-meter wire. This system is designed to work with a single pair transmission cable, and you can often use existing overflow alarm wires, extending up to 200 meters for multi-story buildings if needed.
4. **Insert Batteries:** Open the battery compartment on the Main Device and insert the two AA cells provided, ensuring correct polarity.
5. **Mount Main Device:** Place the Main Device in a convenient location where the alarm can be easily heard. It is

designed for floor mounting but can be placed on a shelf or wall-mounted if desired.

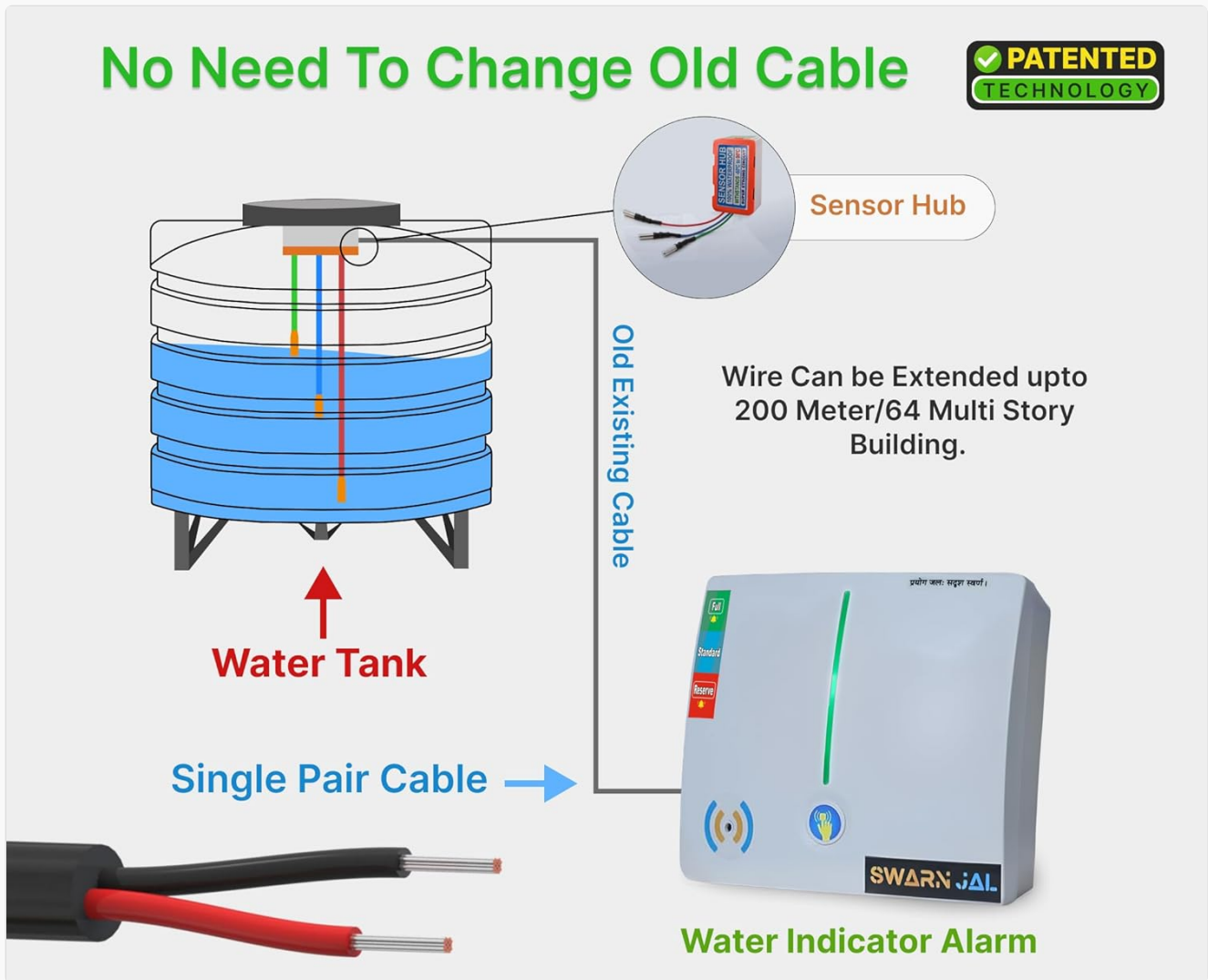


Figure 4.1: Installation diagram showing sensor and device connections.

## 5. OPERATING INSTRUCTIONS

The Swarn Jal alarm system is designed for simple operation:

- **Power On/Off:** Long press the touch button on the front of the Main Device to switch the unit on or off.
- **Water Level Indication:** A short press of the touch button will illuminate the LEDs to show the current water level (Full, Standard, Reserve).
- **Overflow Alarm:** When the water level reaches the 'Full' sensor, the alarm will sound. The alarm will automatically shut off after 45 seconds.
- **Reserve Water Alarm:** When the water level drops to the 'Reserve' sensor, the alarm will sound, indicating that the tank is nearly empty.
- **Low Battery Alert:** The device will emit a short beep every two hours when the battery power is low, signaling that the AA cells need replacement.
- **Wire Breakage Indication:** If there is a break in the sensor wire, the LED indicator on the Main Device will show a Red or Violet color, alerting you to a connection issue.

## 6. MAINTENANCE

To ensure optimal performance and longevity of your Swarn Jal alarm system, consider the following maintenance tips:

- **Sensor Cleaning:** Periodically inspect the brass sensors in the water tank for any buildup of sediment or mineral deposits. Gently clean them with a soft cloth to ensure accurate water level detection.
- **Battery Replacement:** Replace the two AA cells when the low battery warning (short beep every two hours) is activated. Use good quality alkaline batteries for best performance and battery life.
- **Wire Inspection:** Occasionally check the sensor wire for any signs of wear, damage, or corrosion, especially at connection points. Address any issues promptly to prevent wire breakage.
- **Device Cleaning:** Keep the Main Device unit clean and free from dust. Wipe with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners.

## 7. TROUBLESHOOTING

If you encounter issues with your Swarn Jal alarm, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Alarm not sounding or false alarms	Sensors are dirty or corroded; Sensors are not placed correctly; Wire connection issue.	Clean the brass sensors. Ensure sensors are at the correct water levels and securely fastened. Check all wire connections between sensors, sensor hub, and main device.
Low alarm sound/buzzer volume	This model has a fixed sound output.	Ensure the device is placed in a location where the 85 dB alarm can be clearly heard. Consider placing it closer to areas where occupants are frequently present.
Device not powering on	Dead or incorrectly inserted batteries.	Replace the AA batteries with new ones, ensuring correct polarity (+/-).
Wire Breakage Indication (Red/Violet LED)	Break in the sensor wire or loose connection.	Inspect the entire length of the sensor wire for any cuts or damage. Check the connections at both the sensor hub and the main device. Repair or replace the wire if necessary.
Alarm sounds continuously or erratically	Sensor malfunction or water bridging between sensors.	Ensure sensors are clean and properly spaced. If the issue persists, contact customer support.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	A-AL20M (Overflow and Reserve Alarm)
Voltage	3 Volts (DC)
Control Method	Touch
Noise Level	85 dB

Feature	Detail
Mounting Type	Floor Mount
Sensor Technology	Contact Sensor (Brass)
Power Source	Battery Powered (2 AA batteries, included)
Battery Life	1-3 Years (approx.)
Product Dimensions (LxWxH)	14 x 8 x 3.5 Centimeters
Item Weight	360 g
Included Components	Main Device, 3 Brass Sensors, Sensor Hub, 2 AA Cells
Country of Origin	India

## 9. WARRANTY INFORMATION

Your Swarn Jal Tank Overflow & Empty Alarm comes with a **1 Year Complete Replacement Guarantee** from the date of purchase. This warranty covers manufacturing defects and ensures replacement of the product if it fails due to such issues under normal use. Please retain your purchase receipt for warranty claims.

## 10. CUSTOMER SUPPORT

For any installation assistance, guidance, issue resolution, or other queries regarding your Swarn Jal product, our customer care team is available 24/7.

**Please Call or WhatsApp us on: [+91-9050526767](tel:+91-9050526767)**

**SWARN JAL**  
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Figure 10.1: Swarn Jal Customer Support contact information.