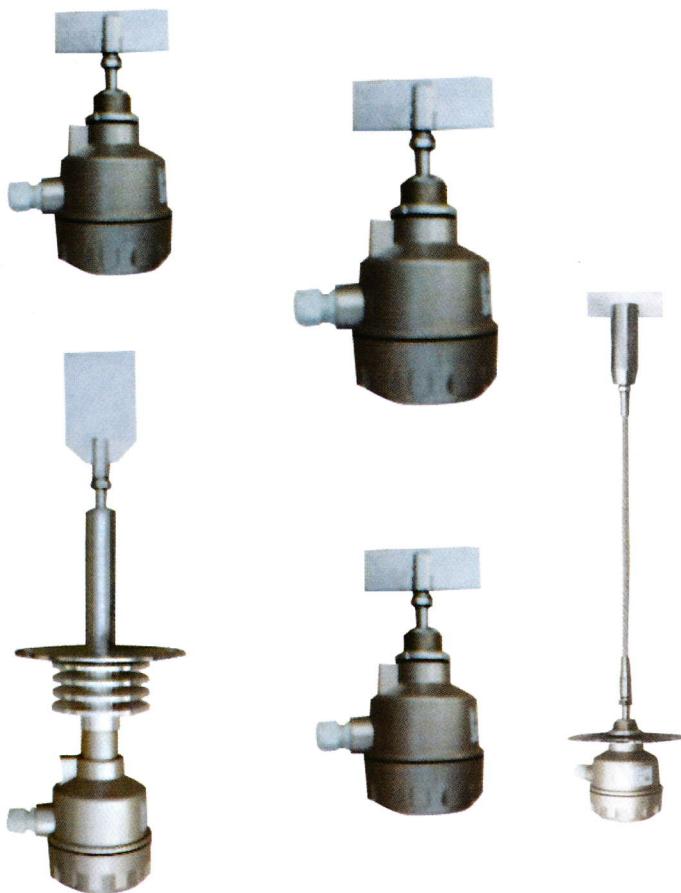
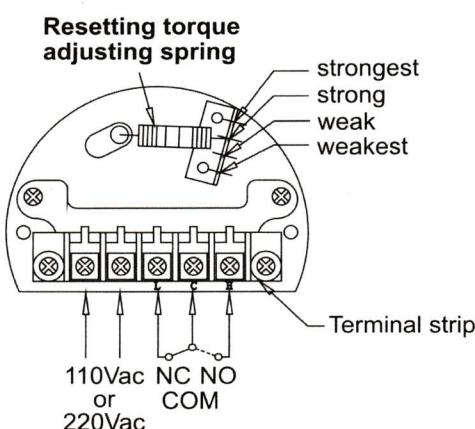


ROTARY PADDLE LEVEL SWITCH



SENSITIVITY ADJUSTMENT



WORKING PRINCIPLE

The purpose of the rotary paddle level switch is to detect the presence of solid/ powder material in most kinds of tanks, bins and containers.

The unit is usually located through a bin wall at the top, middle or low level of a bin. During normal operation (no material present) a synchronous motor rotates the paddle at RPM. When this paddle rotation is impeded by material, surrounding the paddle, motor will stall and cause the micro-switch to change state (indicating an alarm or control).

APPLICATIONS

- Plastics and synthetics
- chemicals and fertilizer
- Pharmaceuticals
- Food and beverage
- Agriculture and fodder mills/depots
- Cement as well as ceramics
- Power plants
- Various incinerators

FEATURES

- Rugged sealing ring prevents dust from infiltrating the housing body along the shaft.
- Adjustable torque. if the rotary paddle encounters overloading, the motor will automatically shut down the motor to prevent damage to the inner mechanisms and extend motor life
- Very suitable for small tanks and low density material
- Adjustable and extendible shaft models available.
- A wide variety of paddles are available

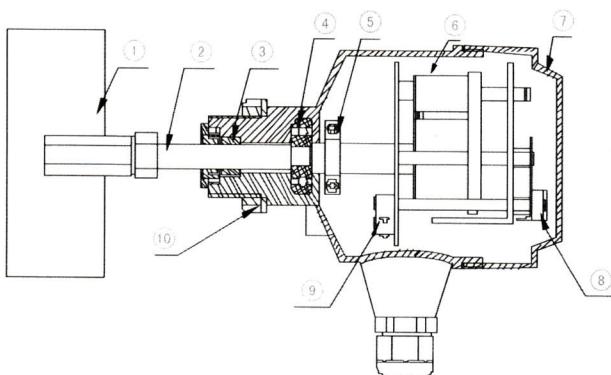
BENEFITS

- Airtight sealed device.
- Outdoor and strenuous environment applications
- Stable and reliable performance.
- Lightweight and easy to install.
- Practically designed to allow maintenance, checks and replacement.
- Not necessary to remove the complete set from the tank.

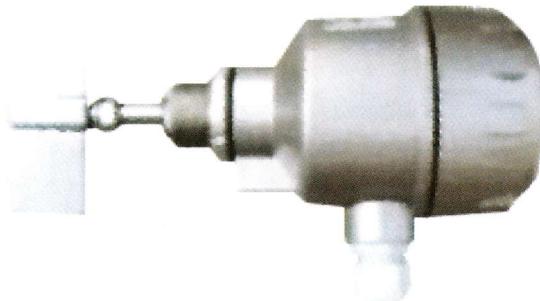
ROTARY PADDLE LEVEL SWITCH



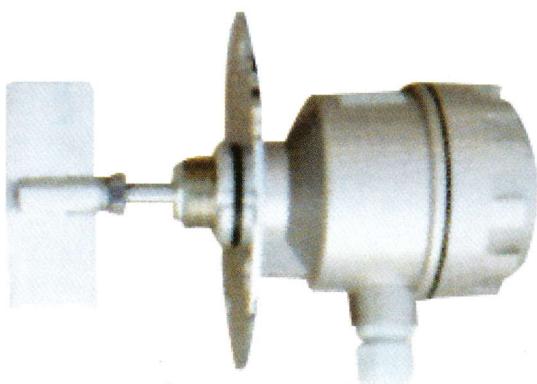
STANDARD SCREW TYPE



AR2-10S



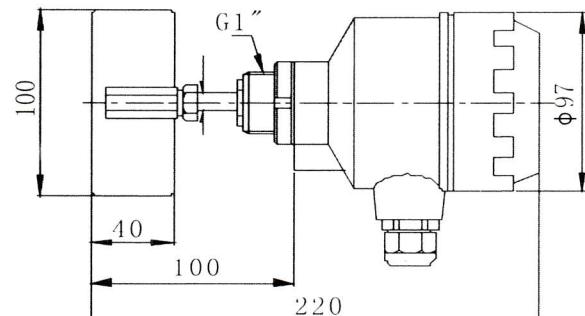
AR2- 10F



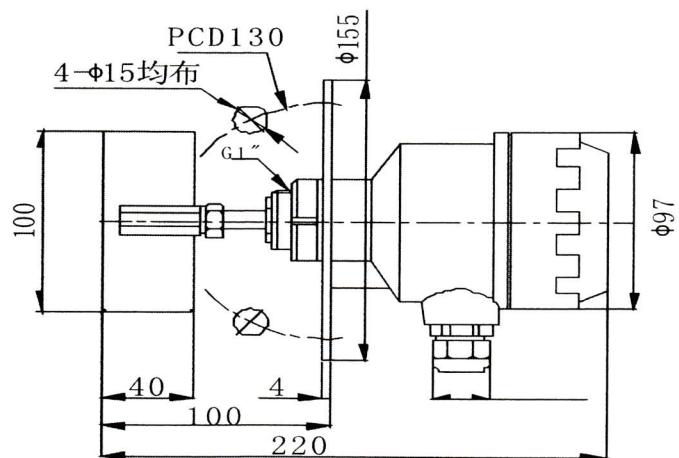
SPECIFICATIONS

Power supply : Standard: 220VAC, 24VAC, 24VDC
 Contact capacity: 250VAC/5A (Resistive Load), SPDT
 Operating Temperature: -10°C to 80°C
 (Normal high temperature up to 200°C; Special tailor-made high temperature up to Max 500°C)
 Power: 3W
 Rotating Torque: 1N·m
 Blade Rotational speed: 1rpm
 Blade material: SUS304
 Protection Grade: IP65
 Wire Outlet: M20 x 1.5
 Proportion of the Applicable Medium: > 0.4g/cm³

- 1. Blade 2. Drive Shaft 3. Sealed Components
- 4. Bearing 5. Clutch 6. Motor 7. Junction Box (Shell)
- 8. Terminal Blocks 9. Microactive Switch 10. Nut



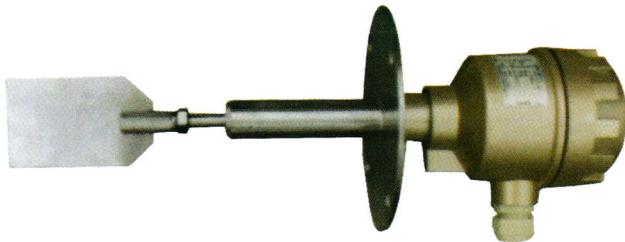
STANDARD FLANGE TYPE



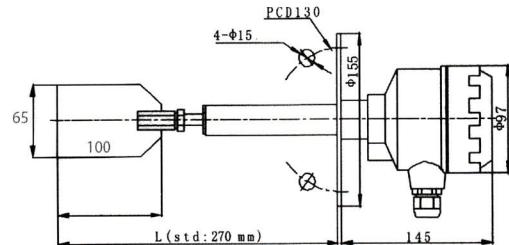
ROTARY PADDLE LEVEL SWITCH



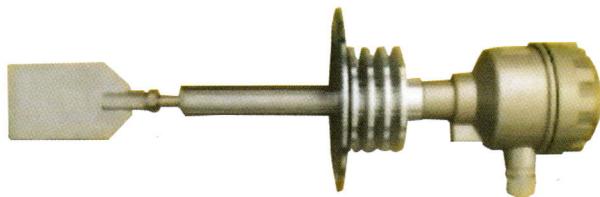
AR2 - 20 F



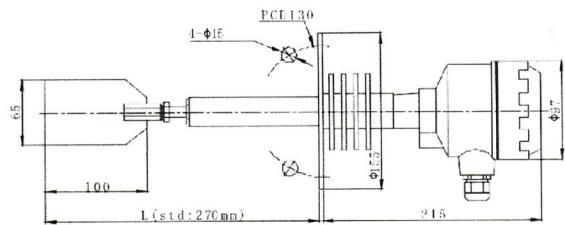
AXIS PROTECTION TUBE TYPE



AR2 - 20 F-T



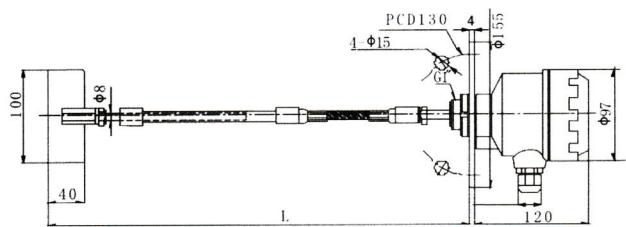
AXIS PROTECTION TUBE AND HIGH TEMPERATURE TYPE



AR2 - 30 F



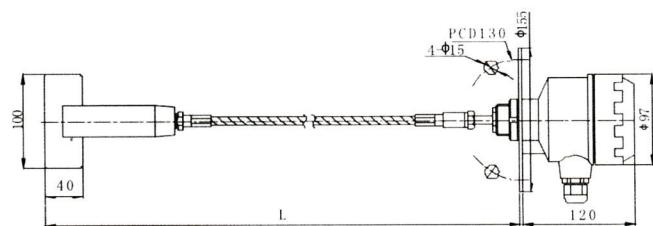
ADJUSTABLE AXIS LENGTH TYPE



AR2 - 40 F



STEEL CABLE TYPE



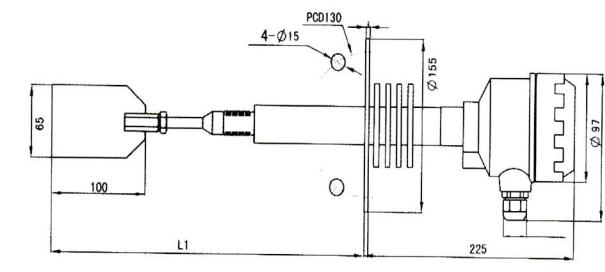
ROTARY PADDLE LEVEL SWITCH



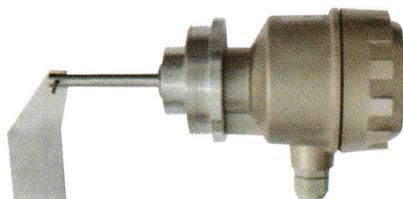
AR2- 20 F-H



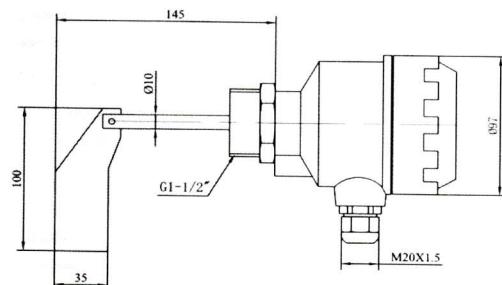
SPECIAL HIGH TEMPERATURE TYPE



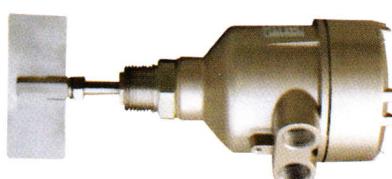
AR2 - 10 XLT



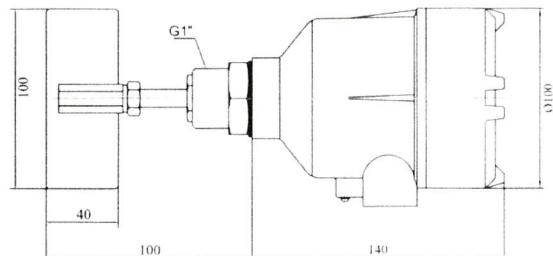
SPECIALLY CUSTOMIZED



AR7 - 10



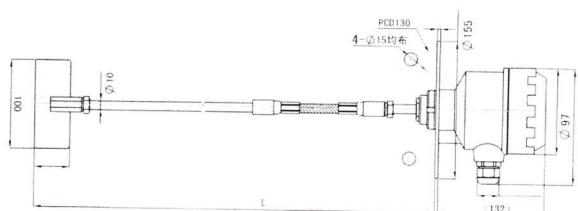
STANDARD EXPLOSION-PROOF TYPE



AR2- 10 F-L



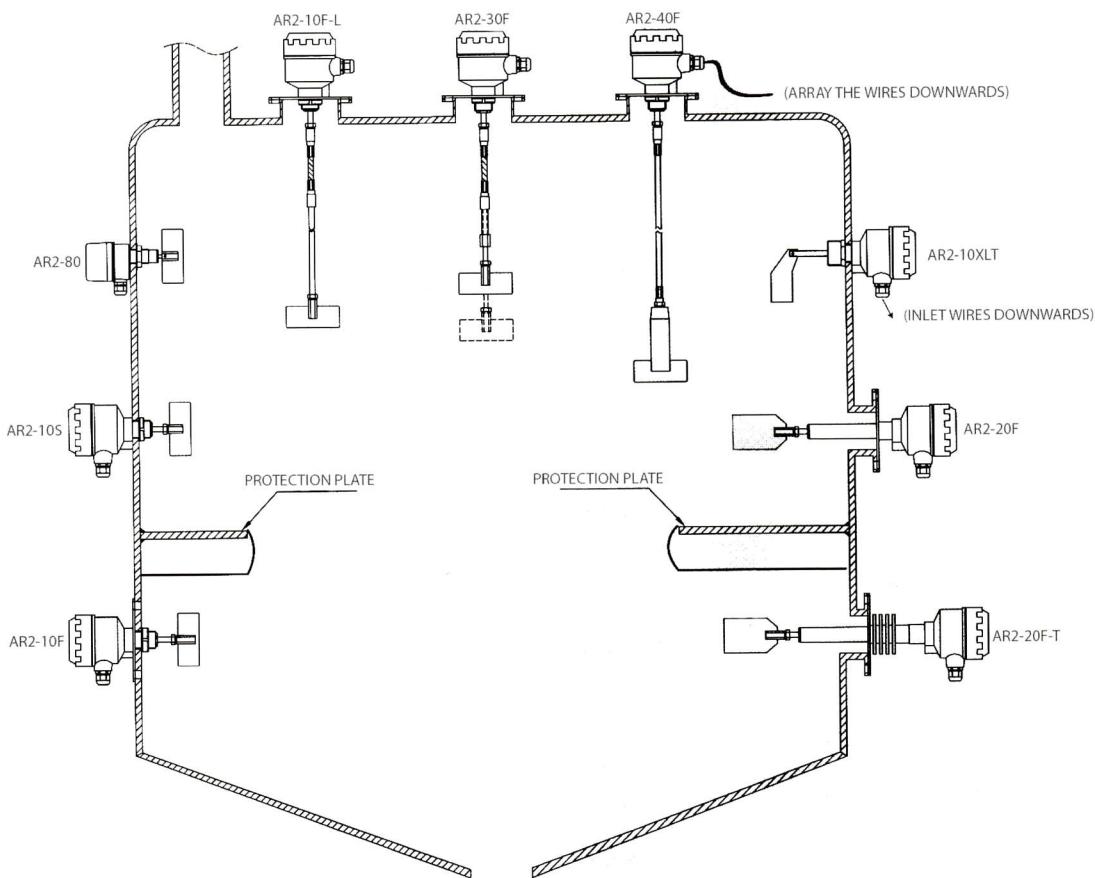
STRAIGHT EXTENSION TYPE



ROTARY PADDLE LEVEL SWITCH



INSTALLATION PRECAUTION



1. Please confirm the power supply during installation so as to avoid damage to motors.
2. When install, keep away from the inlet to prevent material impact.
3. During horizontal installation, Please make sure the wire inlet in downward, during vertical installation, please array the wires downwards (see above diagram) and fasten the inlet connector and the upper cover of the junction box, to avoid rainwater infiltration and further guarantee the switch s normal usage.
4. During horizontal installation, the level switch can be sloped downward at $15^\circ \sim 20^\circ$ to reduce accumulation of materials.
5. Please install protection plate during horizontally low installation in big tank (see above diagram), its also acceptable to weld a half- pipe ($r= 150mm$), with the length of 50mm more than that of the switch in the position of 250mm above the level switch.

ROTARY PADDLE LEVEL SWITCH



CONFIGURATION

AR2- -

The diagram shows a stepped rectangular block with a total height of 250 mm. The top surface has a width of 100 mm. The left side features a vertical cutout with a height of 120 mm and a horizontal slot at the bottom with a width of 10 mm. The right side is solid. Callout A points to the vertical cutout on the left, showing its height of 120 mm and the 10 mm slot. Callout B points to the top surface, showing its width of 100 mm. Callout C points to the right side of the block.

Others

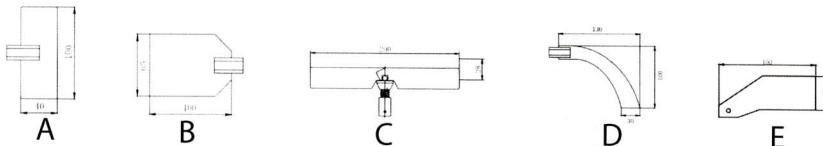
(Standard type provided without being specified)
Standard High Temperature Type (max 200C)
Special High Temperature Type (max 500C)

Total Length

Unit : mm

Blade Type

See the following figures



Power

A.220VAC B.110VAC C.24VAC D.24VDC

Connecting Way

F-flange (standard: JIS 2-1/2" X 5kg/cm²) S-screw X-others (detail specifications need to indicate)

Connecting Axis Form

- 10.Standard Type**
 - 20.The Axis Protection Tube Type**
 - 30.Axial Length Adjustable Type**
 - 40.Steel Cable Type**
 - 50.Special Ordered**

Selection for example

This model number stands for the standard screw type rotary paddle type level switch/
Power Supply: 220VAC / One – word Blades (100x40mm) / total length: 800mm.

Applicable places

Applicable to the manufacturing and Processing Equipment in the industry of food, feed, cement, Plastics Processing, Basic Engineering, Chemical And Chemical Fiber etc.