



Roto-Bin-Dicator[®] PRO

Actively **Protecting** Inventory

Roto-Bin-Dicator[®] PRO is the most advanced paddle wheel level indicator in the bulk solid industry. While others have claimed "True" fail-safe operation, Roto-Bin-Dicator PRO is the only product that performs self-diagnostics and differentiates between faults BOTH in and out of material, actively protecting valuable inventory.

Roto-Bin-Dicator® PRO

ACTIVELY PROTECTING INVENTORY

The Roto-Bin-Dicator® PRO paddle wheel is unique in the bulk solid industry with its ability to

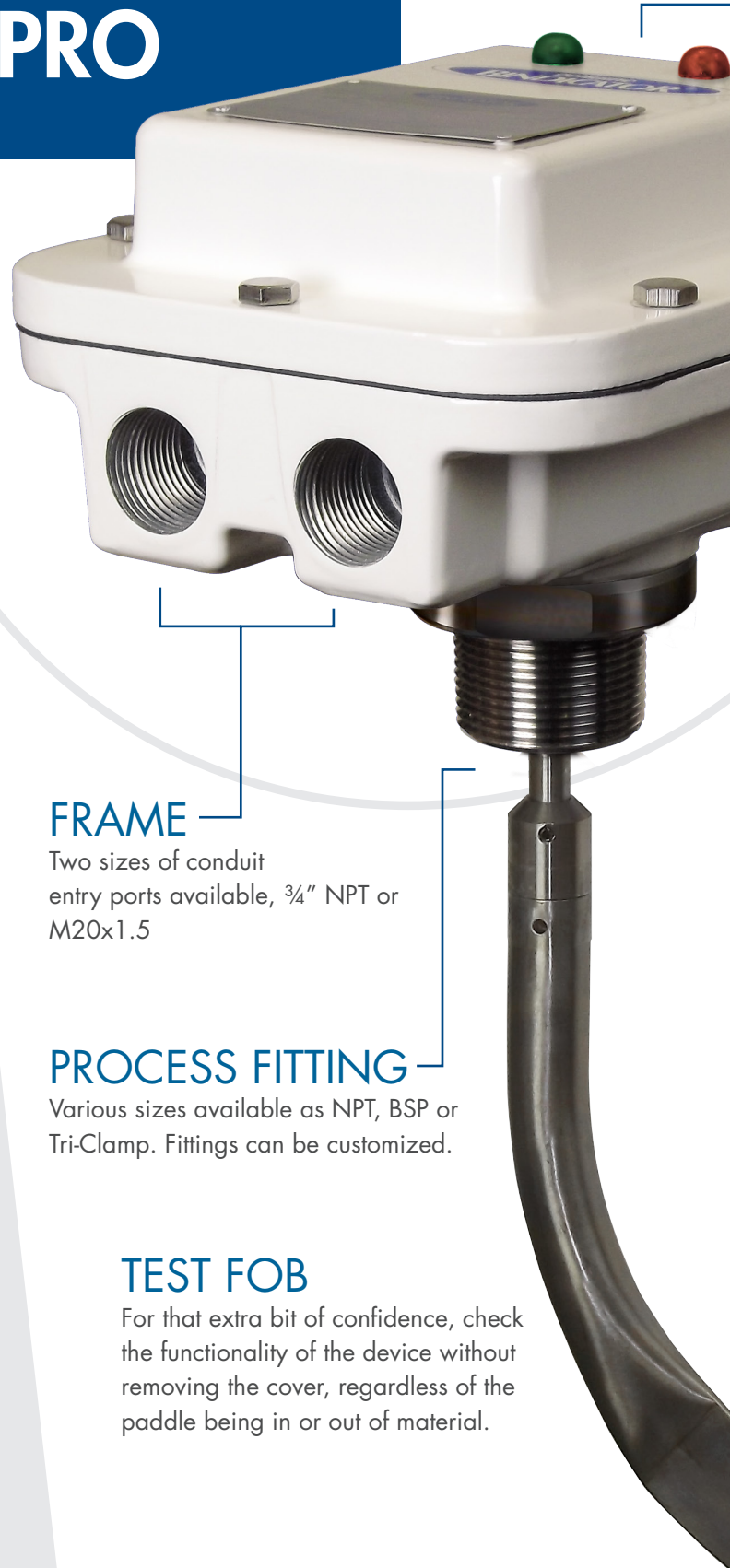
DETECT FAULTS WHILE THE PADDLE IS IN MATERIAL.

It is a true fail-safe device that is able to perform complete self-diagnostics in and out of material, compared to other devices that only provide diagnostics when the paddle is out of material. To truly know if your level device is working, regardless of whether or not the paddle is in material, the Roto-Bin-Dicator® PRO is the only choice.



Self-diagnostics are standard and not only detect faults, but **DIFFERENTIATE BETWEEN FAULTS.** By providing distinct flash codes, downtime is minimized and the Roto-Bin-Dicator PRO model provides an added level of confidence against costly overfills and outages. No other paddle wheel in the industry has this functionality.

Already a versatile product, the Roto-Bin-Dicator PRO meets the requirements of a **GREATER RANGE OF APPLICATIONS** with 3 sensitivity settings, a breadth of paddle choices and universal power. Sensitivity settings combined with different paddles allow the same unit to be used with a variety of materials. Universal input power and polarity detection allow for flexibility with different input voltages and prevent costly damage from miswiring.



FRAME

Two sizes of conduit entry ports available, 3/4" NPT or M20x1.5

PROCESS FITTING

Various sizes available as NPT, BSP or Tri-Clamp. Fittings can be customized.

TEST FOB

For that extra bit of confidence, check the functionality of the device without removing the cover, regardless of the paddle being in or out of material.

SELF-DIAGNOSTICS

Whether the paddle is in **or** out of material, PRO does a self-check for faults. If a fault is detected, PRO will differentiate and let you know which of the following has occurred:

- Supply Voltage Fault
- Motor Not Connected
- Motor Failure
- Gear train Failure
- Electronics Temperature Range
- Electronics Fault

GENUINE FAIL-SAFE

The PRO model provides an alarm relay that can be configured for high or low level fail-safe, and a separate auxiliary relay for self-diagnostics that operate when the paddle is in or out of material; giving you confidence that your system is functioning properly.

MOTOR PAUSE:

For applications where the material level seldom changes, motor function is suspended after prolonged periods where no change in material level has been detected to save power and extend the life of the unit. Motor pause is an optional setting.

SENSITIVITY SETTINGS

The motor torque can be adjusted +/- 30% to match materials of varying bulk densities.

TIME DELAY

Set when a delay in the activation and deactivation of the alarm relay is required. Four settings available, up to a 25 second delay.

Mounting Considerations

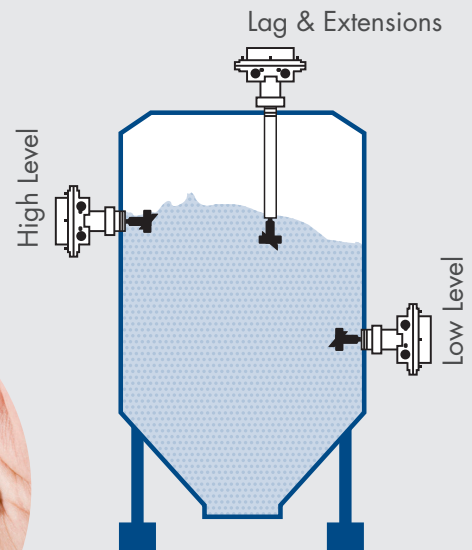
The Roto-Bin-Dicator® PRO can be installed in many different orientations and environments.

Horizontal or Vertical: Units can be positioned horizontally or vertically in a tank to better reach the level detection point. Multiple units can be installed in a single tank if various levels wish to be detected.

Mounting Plate: Due to the size of some of the paddles, a mounting plate may be required to attach the unit correctly to the tank. It may also be used to insert the PRO into a larger pre-existing opening in the tank.

Extension: Most often used with vertically mounted units, a pipe extension can be added to the paddle in order to position it further into the tank and reach the required point for level detection. For smaller materials that tend to pack into the hollow pipe, a lip seal can be incorporated to protect from clogging.

Lag: Used for high temperature applications, the distance between the housing and the process fitting is lengthened with pipe in order to move the electronics away from high process temperatures.



Paddle Matrix



| Model | Description | Material | Dimensions | Insertion Length | Application Considerations |
|--------|---------------------|-----------------|--|----------------------|---|
| H-370 | 4-vane | Stainless Steel | 1.5 x 5 in. (4 x 13 cm) | 3.75 in. (10 cm) | Med. weight material - max. particle size of 3/4 in. (plastic pellets) |
| H-371 | 4-vane | Stainless Steel | 2 x 7in. (5 x 18 cm) | 3.75 in. (10 cm) | Lighter weight material - maximum particle size of 3/4 in. (plastic pellets) |
| H-373 | Multiflex | Neoprene | 1.5 x 24 in. (4 x 61 cm) | 26.5 in. (67 cm) | Very heavy large particle size (rock, coal), vertical mounting only |
| H-374 | Multiflex | Stainless Steel | 1.5 x 17 in. (4 x 43 cm) | 22 in. (65 cm) | Very heavy large particle size (rock, coal) for higher temperatures, vertical mounting only |
| H-379 | Curved Banana | Stainless Steel | 4.56 x 7.5 in. (12 x 19 cm) | 8.25 in. (21 cm) | Low to medium weight materials - maximum particle size 1/4 in. (carbon black, powders, wood chips) |
| H-372A | 1-Vane with 30° Cut | Stainless Steel | 1 x 2.88 in. (3 x 7 cm) | 3.75 in. (9.5 cm) | Typically side-mount; heavy material - maximum particle size 1 in. (sand, cement) |
| H-380 | 2-vane collapsible | Stainless Steel | Closed: 5 x 8.75 in. (13 x 22 cm) Open: 7.5 x 1.22 in. (19 x 3cm) | 5.94 in. (15 cm) | Low to medium weight material, highly aerated - maximum particle size 1/4 in. (carbon black, powders, wood chips) |



FOR BEST RESULTS ALSO CONSIDER:

- Mounting plate and a shaft guard are recommended for vertical mounted units
- Units in mass flow materials should include a flex shaft coupling and/or dog house
- The larger the surface area of the paddle, the more material can be detected

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Check out the
Bindicator website to
watch a video of Roto
PRO's breakthrough
technology in action.



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