

# MODEL RH/RHX

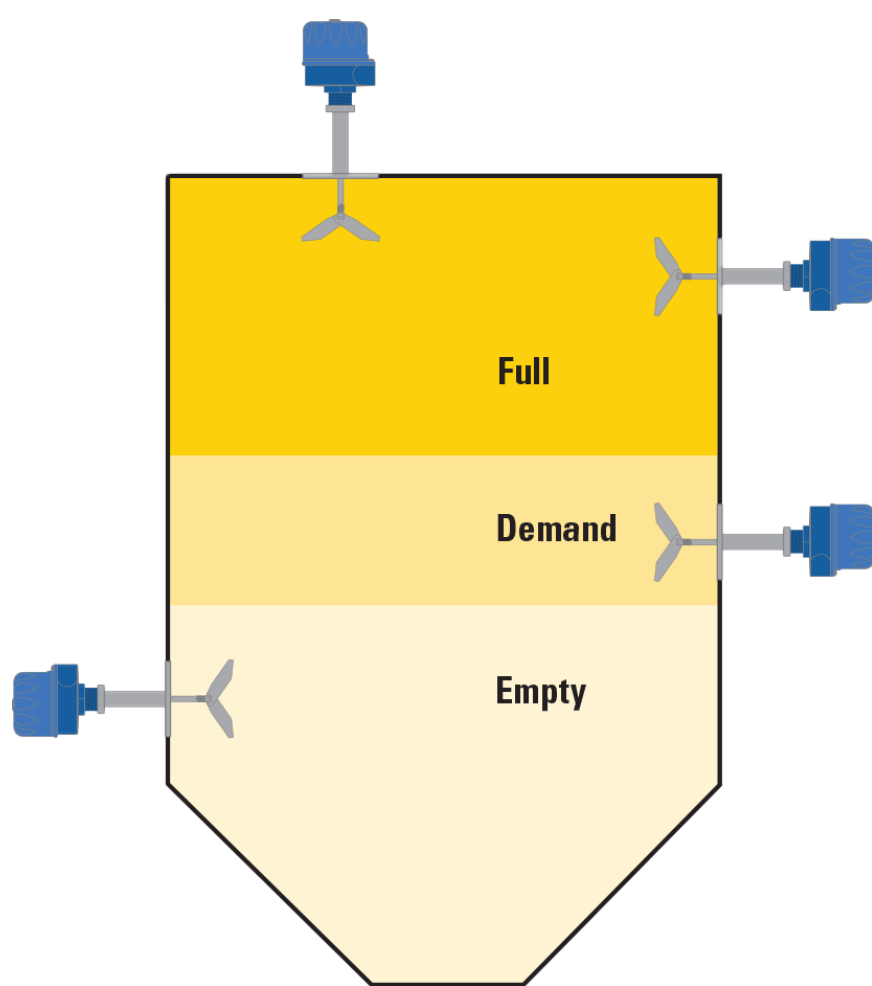
## HIGH TEMP Bin Level Indicator

Universal level detection for powders and bulk solids where high process temperatures exist – low maintenance, high value and high reliability.



### ABOUT

Model RH/RHX HIGH TEMP bin level indicator uses rotary paddle technology with stainless steel extension, mounting plate, air purge and seal allowing unit to operate with continuous process temperatures up to 750 degrees F (399 degrees C) and provides a unique combination of features. The paddle rotates freely in the absence of material within the bin. Material presence surrounding the paddle in the bin will impede its rotation and cause the state of the built-in relay contacts to change, indicating material presence. The built-in LED's will change to indicate the status of the alarm condition.



- ✓ SUPER BRIGHT LED's locally indicate Normal / Alarm status
- ✓ Rugged aluminum enclosure with powder coat finish (FDA Compliant)
- ✓ Twist off cover
- ✓ Selectable High/Low fail-safe output on power failure
- ✓ Four bearing shaft assembly increases reliability and life
- ✓ Internal bi-directional clutch protects motor
- ✓ HIGH TEMP stainless-steel extension
- ✓ Various voltages
- ✓ Automatic motor shut-off
- ✓ DPDT relay output
- ✓ Removable wiring terminals
- ✓ Interchangeable with other brands accessories
- ✓ Adjustable sensitivity (if needed)
- ✓ Dual conduit entrances
- ✓ Air purge connection



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## HIGH TEMP Bin Level Indicator



### Technical Data

<b>Housing</b>	Die-cast aluminum, FDA compliant powder coat, NEMA Type 4X, IP65
<b>Process Temp</b>	Up to 750° F (399° C) with air purge; 500° F (260° C) without air purge
<b>Ambient Temp</b>	-40° F to +158° F (-40° C to +70° C)
<b>Sensitivity</b>	Low Level ≥ 5lbs/ft <sup>3</sup> , High Level ≥ 10lbs/ft <sup>3</sup>
<b>Motor Voltage</b>	24VAC, 115VAC, 230VAC, 12VDC or 24VDC
<b>Output</b>	DPDT Relay, 8A @ 250VAC
<b>Fail Safe</b>	Selectable - High or Low
<b>Process Connect</b>	Mounting Plate
<b>Bearings</b>	Four (4) sealed bearings
<b>Certifications</b>	Ordinary Location; CE mark; Hazardous Location

### Ordering Information

4 0 - 1 **X** **X** **X** - 1 **X** **X**

Power Supply
1 - 115VAC
2 - 230VAC
3 - 24VAC
4 - 12VDC
5 - 24VDC

Approvals
1- Ordinary Location
2- Hazardous Location

Shaft Coupling
1- None
2- Standard Coupling
3- Optional Coupling

Process Connection
1 - 1-1/2" NPT Aluminum

Temperature
2- High

### Principal of Operation

For several decades rotary paddle technology has been used as a method for detecting the presence and absence of bulk solid materials. A robust synchronous motor drives a stainless-steel output shaft at approximately 1 RPM.

In the Model RH/RHX HIGH TEMP rotary paddle bin level indicator the output shaft is attached to a stainless-steel extension shaft and the paddle is attached to the end of this extension. The extension shaft is enclosed within a stainless-steel cooling chamber extension that allows for the connection to an air line for air purge cooling. This assembly is finished with a stainless steel/graphite-alloy seal.

The paddle rotates freely in the absence of material within the bin. Material presence surrounding the paddle in the bin will impede its rotation and cause the state of the built-in relay contacts to change, indicating material presence. The built-in LED's will change to indicate the status of the alarm condition.

### Application and Use

High (full), low (empty) and intermediate (demand) level indication are common applications where high process temperatures up to 750° F (399° C) are common. The Model RH/RHX HIGH TEMP units can be used to detect materials with density from 5lbs/ft<sup>3</sup> (80kg/m<sup>3</sup>) for low and intermediate level control and from 10lbs/ft<sup>3</sup> (160kg/m<sup>3</sup>) for high level.

### High Temp Models Available

- 24VAC, 115VAC, 230VAC, 12VDC or 24VDC
- Standard or Extended Insertion Lengths
- Folding or Conventional Paddles
- Ordinary or Hazardous Locations



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