

Brief Description:**Level Sensors and Silo Measuring Heads**

Colortronic offers Bindicator and Monitor rotary level sensors, as well as Bindicator radio frequency sensors and silo inventory measuring heads. Control consoles are also available.

Rotary Level Sensors

- Cast aluminum housing, stainless steel shaft and paddle
- 115/1/60 VAC motor and two SPDT auxiliary switches
- 18" extension (top-mount units only)
- NEMA 4/5 enclosure
- Flex coupling and coupler (top-mount units only)

Radio Frequency Level Sensors

- Cast aluminum housing
- Single probe with 3/4" threaded connector
- 115/1/60 VAC operation with DPDT output relay
- Electronic pushbutton calibration
- NEMA 4/5 enclosure
- Electronics are remote-mounted with 20 feet of cable

Silo Inventory Measuring Head

- Measuring span up to 100 ft.
- Injection-molded Minlon frame and polyethylene cover with 3" NPT mounting hub
- Plastic sensing weight
- 3" NAT aluminum pipe flanges
- 3" x 12" long (approx. 76 mm x 305 mm) aluminum standpipe
- Count output in 0.39 inches (1 cm) increments
- 115/1/50-60 VAC electrical wiring
- 3/4" connection

**Level Indicators: Optional Features**

- 230/1/60 voltage (rotary level sensors and RF 12000 only)
- High temperature, 400° F package; not available on Bindicator models or radio frequency level sensors
- Control console with 2, 4, or 10 control points

Measuring Head: Optional Features

- NEMA 3R or NEMA 7 enclosures
- NEMA 1 or NEMA 7 control console
- Internal heater assembly for control console
- Air purge for control console
- Sounding weights for control console
- 230/1/160

Rotary Level Sensors

Brand	Model Number	Mounting	Diameter, in.	Height, in.	Shipping weight, lbs.
Bindicator	3108AS	Side	8	6	8
Bindicator	3108AT	Top	8	6	10
Monitor	3108BS	Side	8	6	8
Monitor	3108BT	Top	8	6	10

Use with control consoles listed below or railcar unloading system for high level cutoff

Control Consoles

Control consoles are available for use with rotary or radio frequency level sensors. The multiple-point console features high and low indicating lights, audible alarm, NEMA 1 enclosure, and control contacts rated at 1amp at 115/1/50-60 VAC. Consult factory for lead time.

Model Number	Type	Total Control Points	Indicating Lights on Graphic*
RLC2	Relay-based control	2	1 high; 1 low
RLC4	PLC-based control	4	2 high; 2 low
RLC10	PLC-based control	10	5 high; 5 low

* Consult factory for other configurations

Silo Inventory Measuring Heads

The Bindicator silo inventory measuring head comes with 100 feet of 1/16" braided nylon cable. Cable length should be specified inside tank height minus 2 feet.

Model IMH-GP-4 features a NEMA 4 enclosure. Model IMH-GP4-EP features a NEMA 7 enclosure; cast aluminum housing, class I, division I, groups C&D, and class II, division I, groups E, F, & G stainless steel plumb bob weight, auxiliary cable wiper.

A 10-watt, 115/1/50-60 internal heater assembly is available and is required for below freezing temperatures. Air purge is available for high-temperature and/or dusty environments, with 1/4" NPT on mechanical side. Sounding weights are available in standard plastic with spike, 316 stainless steel bob weight or 316 stainless steel float.

Remote Display Control Console

The silo inventory measuring head is available with an optional remote NEMA 4X display with keypad

Control Panel Includes:

- 115/1/60 (230V optional)
- 4 line x 20 character display
- Programmable sensor names and ranges
- Enable/disable network addresses
- RS-485 (MODBUS) communication
- Up to 99 sensors connected to a single display
- Optional modem
- Optional PC software

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