

# MATERIAL LEVEL Indicators

## Technical Specifications

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



### Features

#### Standard Features

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

#### Optional Features

##### LEVEL INDICATORS

- 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

- 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
- 230/1/60

## Silo 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

## Specifications

Rotary Level Sensors					
Model	Brand	Mounting	Diameter, in.	Height, in.	Ship. Weight, lbs.
3108AS	Bindicator	Side	8	6	8
3108AT	Bindicator	Top	8	6	10
3108BS	Monitor	Side	8	6	8
3108BT	Monitor	Top	8	6	10

Control Consoles			
Model	Type	Total Control Points	Indicating Lights on Graphic <sup>1</sup>
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

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 1 amp at 115/1/50-60 VAC. Consult factory for lead time.

<sup>1</sup> Consult factory for other configurations