



## FEATURES AND BENEFITS

### Unique, Patented Principle of Level Measurement

- Much lower frequency than radar, therefore less affected by noise

### Designed for Difficult Applications

- Approved for hazardous areas and signal not affected by changes in temperature, particle size, density or moisture content
- Works well with
  - Low dielectrics
  - Dust/vapor environments
  - Tall/narrow silos
  - Grain elevators/multi-tank installations

### Measures a 6" Radius Around Sensor Cable

- Not affected by corrugated side walls or cross members

### Does Not Use Timing to Determine Length

- Higher accuracy at longer lengths

### Expandable Controller

- Up to 24 tanks per control unit

### Multiple Ways to Program

- All functions programmed through keypad, PC or via modem (with i-LEVEL<sup>™</sup> software)

**DESCRIPTION** Bindicator's patented Phase Tracker<sup>™</sup> is designed to solve the most challenging continuous level applications. It has no moving parts and uses a sophisticated electronic signal to accurately measure even the most difficult materials in the most demanding environments.

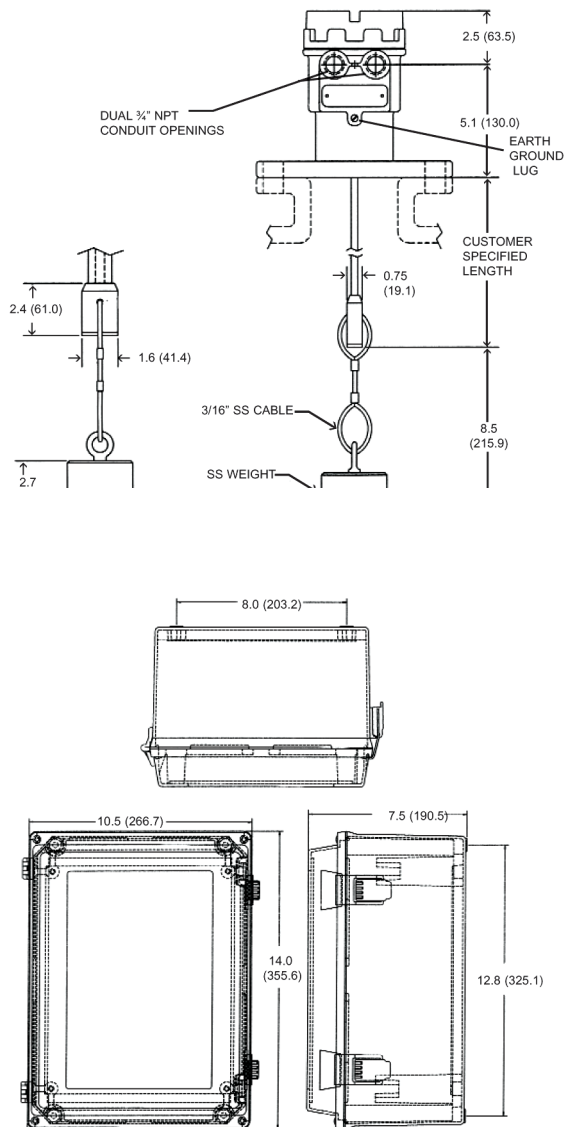
Phase Tracker is ideal for the level measurement of bulk solids. It can accurately and reliably measure the level of bulk solids and powders during the fill cycle, regardless of dust or material variations in density or moisture. It is effective in non-air vapor, fumes, abrasives and corrosives, as well as corrugated bins and tall, narrow silos.

Phase Tracker sensing technology is independent of two of the most common problems that affect continuous level instrumentation: variation in the environment and changes in the product being measured. Phase Tracker can be applied throughout the processing, manufacturing, and material handling industries to solve tough measurement applications.

**HOW TO ORDER** Bindicator's Phase Tracker system consists of a control unit and up to 24 sensors. The control unit is usually mounted in a central location and can be connected to external systems through a number of process connections including a telephone modem. The sensors are powered by the control unit and can be mounted up to 400' (121.9m) from it. The exact options installed on each control unit are selected to match the needs of the installation. The model of each sensor is selected based on height of the tank and the product that will be stored in it.

Your Bindicator<sup>®</sup> representative will work with you and our trained factory application engineers to select the proper Phase Tracker components to satisfy your application and business requirements. To assist us, please fill out an application data sheet. Application data sheets can be downloaded from the Bindicator<sup>®</sup> web site, [www.bindicator.com](http://www.bindicator.com), or can be obtained from your local representative. If you have any questions about the Phase Tracker, please call Bindicator<sup>®</sup> directly and ask to speak with an application engineer.

## DIMENSIONS



## SPECIFICATIONS

### FUNCTIONAL

Operating Power	115/230 VAC
Operating Temperature	-4° to 158° F (-20° to 70° C)
Accuracy	± 1%-2% of full scale
Dielectric Constant	= > 1.3
Output	(Optional) Isolated 4-20mA DC into 300 ohms, RS-232 phone modem interface for remote calibration/monitoring
Relay	(Optional) SPST

### PERFORMANCE

Measuring Range	130 ft (39.6 m ) maximum
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### PHYSICAL

Enclosure	NEMA 4X
Mounting	Polyester coated aluminum, 3" 150# FF flange, 4" 150# FF flange 1 1/4" MNPT (Liquid Sensor) DN100, PN 16 DIN
Display/Keypad	16 Character alphanumeric LCD
Sensor Material	Tefzel Jacketed Steel, 316 SS Rigid Rod
Sensor Temperature	-40° to 300° F (40° to 149° C) Standard, for higher temperatures Consult Factory

### OPTIONS

Sensor Options	316 SS Weight, 316 SS Tether, 316 SS Pigtail
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### APPROVALS

	ATEX listed for Intrinsically Safe 3A CE
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