Effective Sludge Level Detection and Control Through BinMinder 9300™

Superior signal processing & control features provide maximum performance in Water and Waste Water Treatment applications



Clarifier and Thickener Applications

Successfully Operated In:

- ***Primary & Secondary Clarifiers***
- ***Round & Rectangular Tanks***
- ***Stationary & Traveling Bridge***
- ***Gravity Thickeners***
- ***Reactor Clarifiers***
- ***DAF Thickeners***



Features:

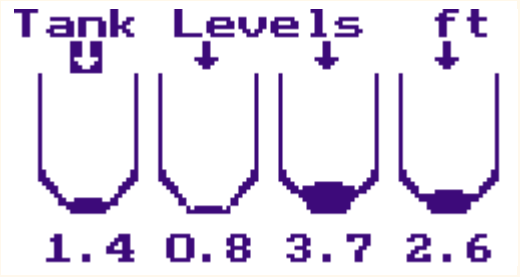
- ***32 bit DSP Microprocessor***
- ***Low cost single & multiple tank configurations***
- ***No moving parts, no maintenance required***
- ***Ease of set-up and operation***
- ***Configure up to four transducers with 4-20mA output and four status relays with a single processor***
- ***RS232/485 output to interface with user DCS***
- ***Operator control of critical signal parameters for maximum accuracy***
- ***Locate transducer(s) up to 1500 ft. from processor***
- ***Swing bracket assembly accommodates passing surface skimmer***

Convenient Multi-Function Displays

Digital Display provides current tank blanket level



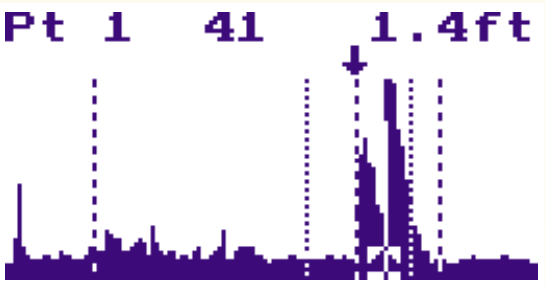
Monitor up to four blanket levels from a single Overview Display



Unique Tank Profile For Extensive Status Reporting

Includes . . .

- *Complete Tank Signal Profile*
- *Current Blanket Level*
- *Primary & Secondary Tracking Positions*
- *Tank Depth Indicator*
- *Current Adaptive Gain Level*
- *Multiple System Status Symbols*



. . . all on a Single Display!

Automatic Initialization Simplifies Start-Up

Operator enters valid Tank Depth and Zero Adjust and BinMinder automatically sets the correct system Gain and tracks to the blanket. System outputs are held until the initialization routine is complete and the blanket level has been located.

Full Complement of System Outputs

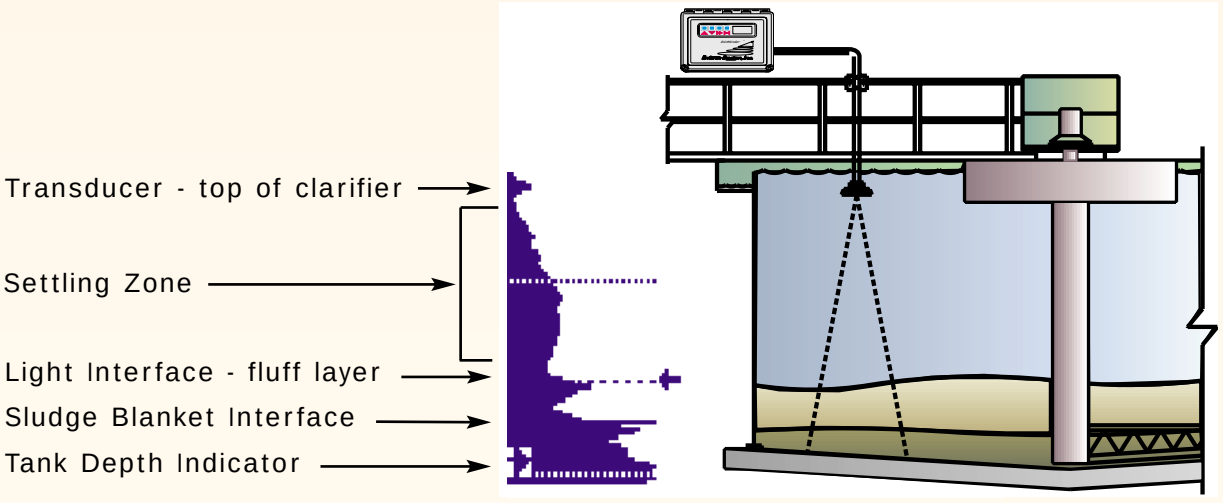
- Back-lit LCD and control pad on processor provide easy access to simple, intuitive menu control system and extensive informational displays.
- Independent 4-20mA output isolated to each sensor.
- Four independently assignable Relays with Set Point, Dead-band and Timer function.
- RS 232 and RS 485 Serial Port for single and multiple unit signal to user control system.

AYSIX technologies

www.cancoppas.com or controls@cancoppas.com

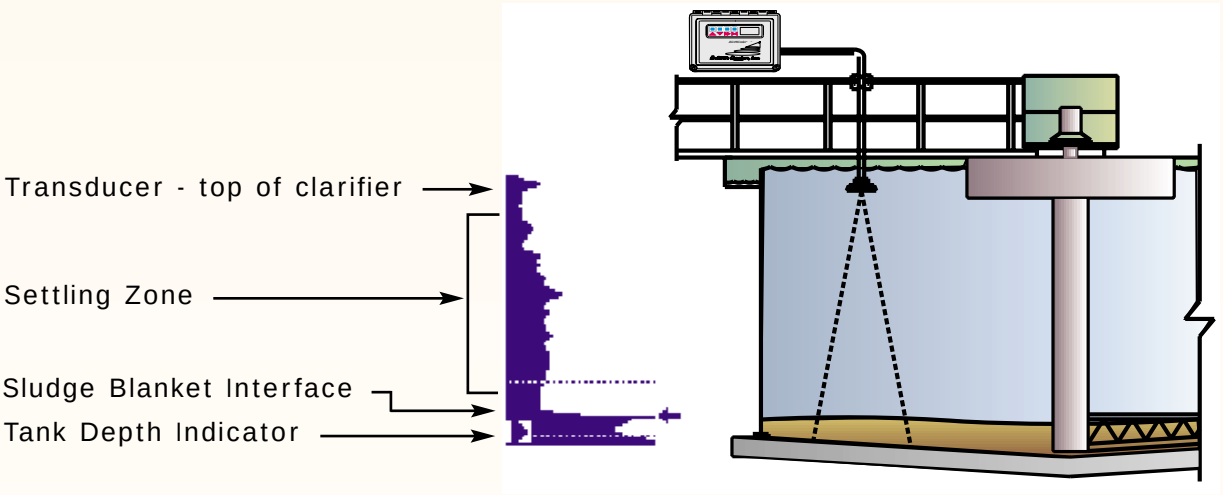
Primary Clarifier Signal Profile

(Signal graphic is actual recorded signal data from an installed unit)



Secondary Clarifier Signal Profile

(Signal graphic is actual recorded signal data from an installed unit)



Additional Features

- Application specific operating frequencies
- Hazardous area, extreme temperature & chemical resistant transducers available
- Automatic temperature compensation
- Optional wireless signal transmission

Municipal Applications

- Primary & Secondary Clarifiers
- Gravity Thickeners
- Dissolved Air Flotation Thickeners
- Reactor / Alum Clarifiers
- Liquid level in storage vessels

. . . and much, much more!

BinMinder 9300 Specifications

Measurement Type:

- Single beam, underwater acoustic sensor

Measurement Range:

- Minimum range: 1 ft. (0.3m)
- Maximum range: 328 ft. (100m)
- Range accuracy: 0.1 ft. (0.03m)

Distance of Transducer from Processor:

- 1500 ft.

Outputs:

- 4-20 mA Current Loop Outputs:
  Internally powered
  Transient protection: Protected against transients exceeding 31.4V
  Isolation: Galvanic isolation up to 1500V AC
  Reverse polarity protection

- Serial Ports:
  RS232 Interface for single unit operation
  RS485 Interface: multiple units can be connected to the multidrop RS485
  Transient Protection: Protected against transients exceeding 31.4V
  Isolation (Optional): Galvanic isolation to withstand 1600 Vrms for 1 minute, or 2000 Vrms for 1 second

- Relays:
  Four relays, independently assignable to any sensor
  Relays are UL, CSA and VDE approved (VDE 0435, VDE 0631, VDE 0700)
  Relay ratings are:
  Nominal switching capacity
  10A @ 250V AC
  10A @ 30V DC

Beamwidth:

- 6 degree full beam, 3 degree half beam

Power requirements:

- AC power requirements are 110/220 VAC, 100 Watts
- Factory set to 110VAC unless otherwise specified
- AC line voltage transient protection
- Protected against transients that exceed 275V
  Power line noise and interference is filtered by an in line EMI filter, filter has CSA, UL and VDE approvals

Temperature range:

- Processor: -40˚F to +140˚F
  -40˚C to + 60˚C

- Standard Transducer: -40˚F to +120˚F
  -40˚C to + 50˚C

- Hi-Temp Transducer:
  Transducers suitable for continuous operation at temperatures to 350˚F (178˚C) are available.

Mechanical:

- Processor:
  Housing, molded fiberglass polyester
  NEMA type 4X
  Weight - 8 lbs.
  Size (nominal) - 10” x 8” x 6”

- Standard Transducer:
  Material - epoxy
  Weight - 1 lb.

- Chemical Resistant Transducer:
  Transducers manufactured of engineered chemical resistant materials are available

- CE approved systems manufactured to EMC Directives: EN50081-2:1996, EN50082-2:1992; and Low Voltage Directive: EN61010.1 (Publication IEC 61010-1:1990 with Amendments 1 and 2, and EU Group Differences) are available.

- Transducers manufactured to hazardous area standard VDE0113u.0100 are available.

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