

## A100 Outalarm® with Probe

Dixon® ADSI\* industrial fluid control manufactures products specifically designed for liquid terminal operations. Our standard product offering is shown on the following pages. However, there are numerous additional applications, materials, and custom designs available. For technical information or assistance with ordering these products, please call 513.874.8499 or 877.582.3569 or visit [dixonvalve.com/ADS](http://dixonvalve.com/ADS).

\*Formerly Automated Design Service, Inc.

### Application

- Specifically designed for liquid terminal operation on batch loading and overflow protection, tank cars, tanks trucks, marine barges; suitable for open and closed domes

### Sizes

- 24", 36", 48", and 60" probe lengths standard; other lengths available

### Features

- Totally self-contained; no wires, tubing, or external power
- Rugged weather- and corrosion-resistant construction
- No moving parts, tip sensitive phase shift digital capacitance sensor for conductive and non-conductive fluid; conductivity sensor available for conductive fluids
- Requires no calibration or adjustment
- Adjustable insertion length through a standard 1/2" NPT fitting
- High-intensity audible and flashing visual outputs
- Optional opto-isolated solid state contact output
- Full, hard, graduated, laser-engraved rod
- A100 operates up to 2,500 hours on a single 9V alkaline battery in standby mode
- Fail-safe, continuous battery monitor goes to alarm state on low battery
- Battery current drain <0.23 mA during standby; <60 mA in alarm state

### Materials

- Wetted materials: 316 stainless steel, PTFE standard, other materials available

### Specifications

- Minimum dielectric constant: 1.8
- Temperature range:
  - Capacitance probe: -14°F to 250°F (-26°C to 121°C)
  - High-temp capacitance probe: -14°F to 325°F (-26°C to 163°C)
  - Outalarm® monitor: -40°F to 150°F (-40°C to 65°C)
- Activation point: 1/4" into liquid surface
- Compatible with any liquid or dry bulk material with a dielectric constant of 1.8 or greater
- Horn intensity: 101 dB at 2'
- Light output: three each 3,000 mcd high-intensity red flashing LEDs
- Pressure rating on standard unit: **50 PSI**; consult Dixon® for applications up to **300 PSI**

### Approvals

- Intrinsically safe design per ANSI/UL913 for Class I, Div I Groups A, B, C, and D Hazardous Areas



A100  
Capacitance  
Probe

### A100 Probe

Length	Capacitance 250°F (121°C) Max Part #	Hi-temp Capacitance 325°F (163°C) Max Part #	Conductivity for Conductive Fluids <sup>1</sup> Part #
12"	A100C12A	A100HC12A	A100CSS12A
24"	A100C24A	A100HC24A	A100CSS24A
36"	A100C36A	A100HC36A	A100CSS36A
48"	A100C48A	A100HC48A	A100CSS48A
60"	A100C60A	A100HC60A	A100CSS60A
72"	A100C72A	A100HC72A	A100CSS72A
84"	A100C84A	A100HC84A	A100CSS84A

<sup>1</sup> Material to be sensed must be specified at time of order.