



YARWAY SERIES 2000 ELECTRONIC LEVEL INDICATION

A multi-featured five probe and above electronic alarm system for sensing water level in a variety of high or low pressure applications



Model shown with optional red/green LED door mounted display.

FEATURES

- Based on widely accepted conductivity probe technology.
- Reliable and cost-effective.
- Probes can be mounted directly to the pressure vessel or column.
- Independent detection circuit for each probe allows relay output selection for alarms or trips.
- HP probes feature brazed welded stainless steel electrode with zirconia insulator for high pressure, high temperature applications.
- LP probes feature threaded stainless steel electrode with PTFE insulator for lower pressure and temperature applications.
- Probes can be selected and spaced to indicate liquid level through a desired range.
- Custom manufactured column provides accurate indication.
- Local LED indication of water level in a Type 4X/IP66 enclosure provides primary visual verification.

GENERAL APPLICATIONS

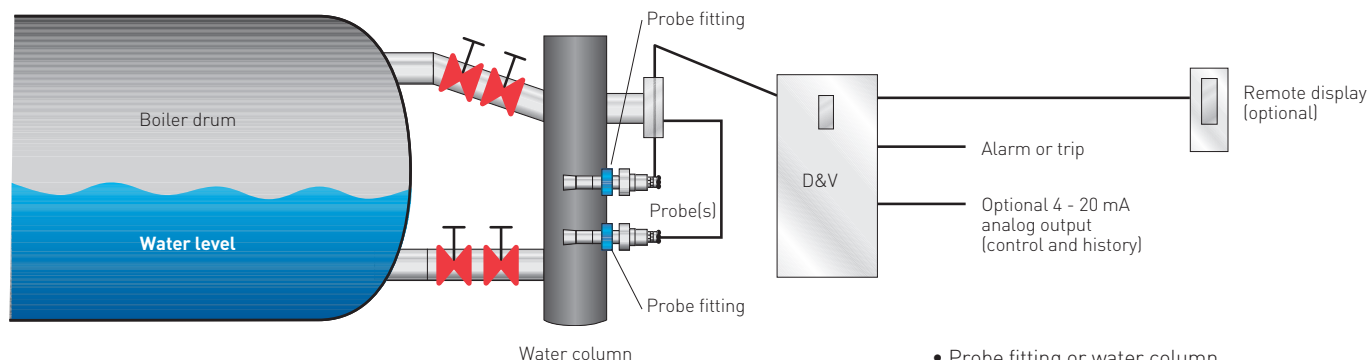
Developed for basic detection, display and switching, the Series 2000 is suitable for applications including boiler drum level, receiver tanks including condensers, water tanks and de-aerators, for flash tanks and feedwater heaters.

TECHNICAL DATA

Max. pressures	
HP probe:	3000 psig (207 barg) at saturation
LP probe:	850 psig (58 barg)
Max. probe temperatures	
HP probe:	1000°F (538°C)
LP probe:	525°F (274°C)
Operating temperature:	
	0 to 160°F (-17°C to 71°C)
Input voltage:	
	120 VAC/240 VAC nominal 50-60 Hz 40 VA max.

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SYSTEM COMPONENTS



- Probe fitting or water column
- Probe(s)
- Detection and verification (D&V) module
- Remote display (optional)

SPECIFICATIONS

- Up to twelve level switch/indication applications per pcb, cascable to accept unlimited add-on probes.
- Provides basic detection, display and switching. No water over steam logic, no wire continuity and no redundant internal power supply.
- Independent detection circuit for each probe.
- Failure of any channel or probe does not disable system.
- Low voltage sine wave used for water detection (<21 VAC RMS nominal).
- Net integral zero current waveform. No DC = no possibility of electrolysis of water or plating.
- Every level has a relay output for alarms and trips.

- D&V accepts up to 10 independently powered red/green LED remote displays.
- Standard green LED internal D&V display.
- Enclosure: Type 4X/IP66
- Maximum sensitivity: 10 μ S/0.1M Ω - cm water
- Input power: 120 VAC/240 VAC nominal, 50-60 Hz 40 VA max.
- Unit incorporates MOV protection
- Relay contacts: Form C, SPDT
10A at 125 VAC
5A at 250 VAC
8A at 28 VDC
- Operating temperature (electronics): 0 to 160°F [-17°C to 71°C]

Typical configuration

- Type 4X/IP66 FRP (Fiberglass Reinforced Polyester) enclosure
- One remote red/green LED display
- Water column with probes (refer to publication VCTDS-02606)

Optional

- 4-20 mA loop output
- Door mounted red/green LED display for local viewing
- Additional remote displays
- Type 4X/IP66 enclosures for remote display

Hazardous area usage

Diode barrier sets for intrinsically safe protection are available for electrode/sense wire energy limiting if water column is used in an area classified as hazardous.

