

# Retropak PC™ Water Column Conversion Kit

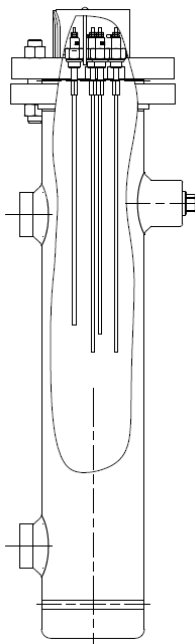
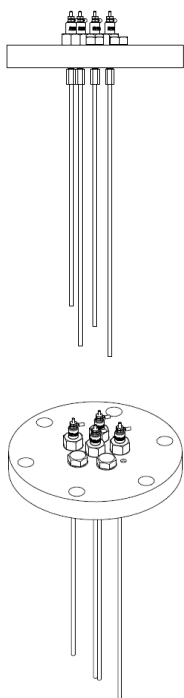
Replaces Column Alarm Floats With Electric Controls

Retropak PC™ Converted Columns Provide 1 to 6 Probe-actuated Alarm and Control Functions. This conversion is easy to install with just a few steps.

A. Remove  
Alarm Floats &  
Whistle



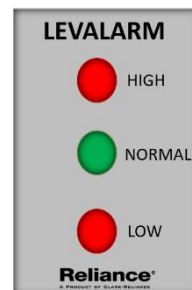
B. Install Retropak PC  
Column Probe Cap



C. Connect Probes to  
Plug-In Relays in  
Control Unit



D. Relays Activate  
Alarms and Control  
Functions at Precise  
Preset Water Levels



Optional Indicator

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## For Improved Boiler Safety, Retropak PC™ Converts All Float Type Water Columns to Employ Electric Probe Controls for Alarms, Low Water Cutout, Pumps and Other Equipment

Easily replace existing high/low alarm floats with reliable on/off electric controls that will activate local or remote alarms and equipment. Designed for water columns, drums or vessels in systems to 3000 PSI.

RETROPAK PC (Probe Cap) allows fast and easy conversion of Clark-Reliance and all other float-type water columns. Retropak kits may also be installed directly onto tank/vessel flange nozzles. Highly dependable, converted installations will be unaffected by changing pressure, temperature or water conditions. Retropak PC allows alarms and equipment being controlled to be located at whatever distance from the column is required.

The system is comprised of the Retropak Cap which contains the number of probes required, and the Retropak Control Unit which houses actuating relays to activate alarms, pump circuits, or low water cutout circuits. A separate optional light indicator is available for operator convenience.

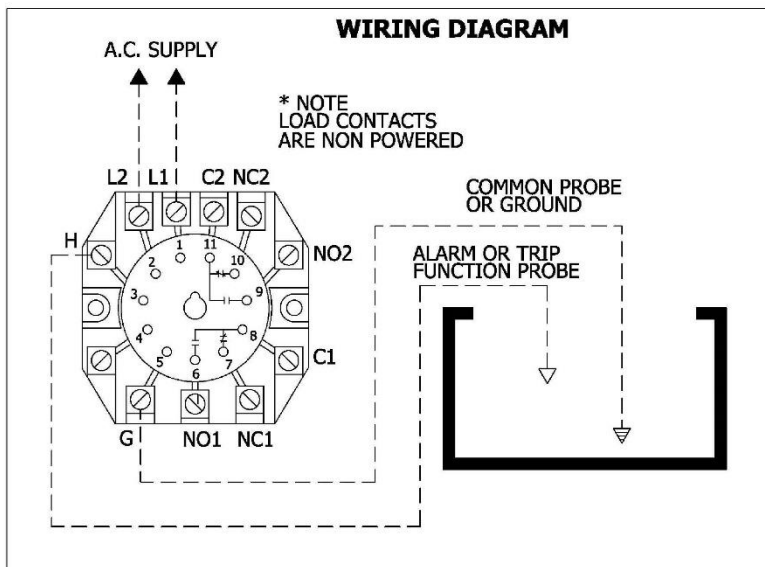
- **Retropak Cap** The cap is a flange that contains up to six probes for applications up to 1800 PSI and 3 probes for applications from 1801 to 3000. The probes are installed at user-specified lengths for precise actuation of electric control signals at desired water levels. The cap replaces the existing water column top flange.

- **Probes** Clark-Reliance patented probes are easily installed and removed and operate durably in high pressure boiler applications.

- **Control Unit** The Control Unit (FM Approved) contains plug-in electronic relays that perform the on/off functions for alarms and equipment. The Control Unit supplies low voltage (12 VAC) to probes. Integral LED indicators verify relay status. For more information, see catalog section AB3.2 (Cast Iron & Steel Water Columns).



### Typical Retropak PC Relay, Single Level Service



Clark-Reliance electronic relays are wired for Direct Mode Single Service: rising water activates relay, falling water de-activates relay. Optional relays are wired for Inverse Mode Single Service: AC power supply activates relay, rising water de-activates relay, falling water re-activates relay. Integral LED shows relay on/off status. (Inverse Mode Relays are designed for failsafe operation on low water cutout circuits.)

**Audible and Visual Alarms** Probes designated as alarm actuators can be wired to relays controlling either audible and/or visual Clark-Reliance alarms. Shown on the cover page is the three-light visual indicator. Protruding lamps allow 180° visibility. Other relay switches may be wired to control user equipment.

# Reliance®

## Retropak PC Specification Data

Contact a Reliance Applications Engineer to review your application at [RelianceAppEng.com](http://RelianceAppEng.com) or your local sales representative.

### For Reliance Columns:

(Provide model and drawing number information below. Then, complete J)

Model No. \_\_\_\_\_

Drawing No. (if available) \_\_\_\_\_

### For Other Brand Columns Employing a Standard ANSI Flange:

(Provide the data below. Then, complete A thru J)

Size \_\_\_\_\_ Face Type \_\_\_\_\_

Rating \_\_\_\_\_ Design PSI \_\_\_\_\_

### For All Others, Please Provide:

A. Design Pressure \_\_\_\_\_

B. Column Manufacturer \_\_\_\_\_

C. Column Model No. \_\_\_\_\_

D. Top Flange O.D. \_\_\_\_\_

E. Top Flange Thickness \_\_\_\_\_

F. Top Flange Face Type \_\_\_\_\_

G. Size of Flange Bolts \_\_\_\_\_

H. Bolt Hole Circle Diameter \_\_\_\_\_

I. Number of Bolts \_\_\_\_\_

J. Number of Probes and Functions (Max. 6)

1. \_\_\_\_\_

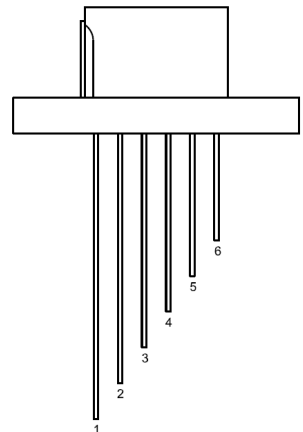
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_



### Contact Information:

Name \_\_\_\_\_

Company \_\_\_\_\_

Street \_\_\_\_\_

State \_\_\_\_\_

Title \_\_\_\_\_

Email \_\_\_\_\_

City \_\_\_\_\_

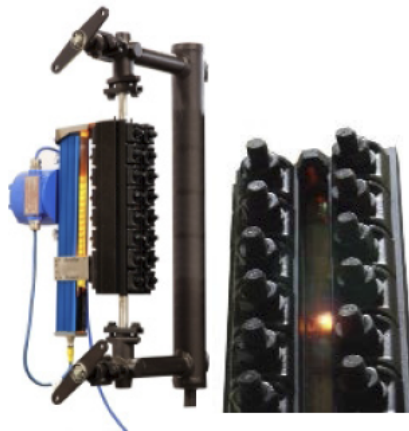
ZIP/Postal Code \_\_\_\_\_

Phone \_\_\_\_\_

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