Clark·Reliance®

World Leader in Boiler Trim Instrumentation & Controls

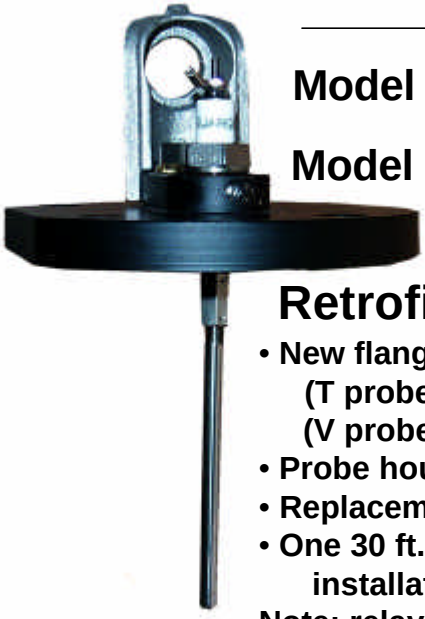
Section:	500
Bulletin:	D3.5
Date:	5/03
Supersedes:	New
Supplement:	to D3.1C

Retropak Cap Assembly for EA100 Levalarms®

Single and Dual Function Control for Alarms, Pumps & Fuel Cut-Outs

Installs on Boiler, Tanks, Water Columns - Pressures to 800 PSI

- **Designed to retrofit EA100D and EA100S Models**
- **Eliminates the float mechanism**
- **Installs without disturbing <u>any</u> boiler piping**
- **Higher reliability with conductivity probes**
- **Less maintenance**



Model EA100DRPT Fits EA100 and EA100D

Model EA100SRPV Fits EA100S and EA100SW

Retrofit Kit Includes:

- **New flange cover with probe:**
  (T probe for EA100 and EA100D Models)
  (V probe for EA100S models)
- **Probe housing kit with ½"conduit connection**
- **Replacement flange gasket**
- **One 30 ft. length of 18 gage Teflon® insulated wire are supplied for the installation up to 15 ft. between probe and relay.**

Note: relay control sold separately

A relay control unit must be specified to operate the probe assembly. Consult Bulletins D3.2C and D3.3C for additional information on all Clark-Reliance LEVALARM® Alarm and Controls.

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Instructions for Model EA100DRPT and EA100SRPV Retropak Probe Cap Assemblies

Identification:
Model EA100DRPT is designed to fit Model EA100 or Model EA100D Levalarms, which have a 4 bolt flange design.

Model EA100SRPV is designed to fit Model EA100S Levalarms, which have a 6 bolt flange design.

Installation Procedure:
This procedure must be performed with the boiler down to prevent any false alarms or wiring hazard. Verify the power at the existing switch is off, before installing the upgrade.

•Be certain there is no internal pressure on the Levalarm assembly.
•Remove switch cover
•Remove the existing wiring from switch.
•Remove flange bolts (4 on EA100D models and 6 on EA100S models) and nuts.
•Discard flange cover assembly with float mechanism.
•Remove old flange gasket.
•Install new flange gasket (Part No. C1-3).
•Attach new flange cover.
•Install bolts and nuts. Torque in an “X” pattern in 1/3 increments up to 70 Ft-Lbs.
•Mount relay control unit at convenient location.
•Attach high temperature wires (furnished) from probe and cap assembly (common wire) and wire to relay socket terminals (See actual relay for wiring schematic diagram label).
•Attach original switch wires from EA100 to the new relay location on the desired switch contact terminals.
•The relay will require a 120 VAC or 230 VAC power source depending upon the Part Number (Use Relay Part No. ECID-23R for 120 VAC or Part No. ECID-56R for 230 VAC).
•Recheck all wiring before returning to service.
•Installation is complete.

Note: The relay can be installed in user supplied enclosure with a surface mount relay socket (Part No. ECID-49) or the relay can be ordered already mounted in an Indoor or Outdoor enclosure. Refer to bulletin D3.2C and D3.3C for additional information on relay control options.

Consult C-R or your local Representative with any additional questions.