

## ENGINEERING DATA SHEET

<i>"G" Series Bearing Wear Detector</i>		
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### Description

The Chempump is a sealless, leakproof, canned motor pump that combines the pump and motor into a single unit. Due to this design, no rotating parts are exposed. To the user, knowing the condition of the bearings is important to the safe and continuous operation of the pump. Previously it was necessary to perform periodic inspections of the bearings.

Chempump has developed a reliable, inexpensive bearing wear detector to visually indicate when the bearings on a "G" Series Chempump need replacement.

### Operation

The device consists of a module, externally mounted on the rear bearing housing. A coated ring is affixed to the rear bearing assembly and wired to the detector module. When a predetermined amount of bearing wear occurs, the rotor shaft wears through the coating and makes contact with the inner metal ring, completing an electrical circuit. This activates three red lights on the bearing wear module. The flashing lights, oriented to provide 360 visibility even in bright sunlight, provide visual indication that the bearings should be replaced. Warning lights are powered by long life batteries. A test button on the module is provided for periodic battery testing.

### Advantages

In addition to the protection afforded by this new unit, the bearing wear detector will provide these user benefits:

- Eliminate system failure and downtime caused by pump malfunction
- Allow easy retrofit in the field
- Available as a low cost option on new pumps
- Bearing wear module itself is reusable
- Adaptable for remote control operation
- UL approved for Class 1, Group C & D, Division 1 service

