



*The Flowserve IPS Beacon is a data acquisition, logging and visual alert device that monitors power-end vibration (x-y-z axis) plus temperature.*

### ***A Cost-effective Means of Increasing Uptime and Extending Mean Time Between Failure***

It is estimated that less than 10 percent of all pump failures are attributable to normal bearing wear and fatigue. That means nearly all bearing failures are avoidable. IPS Beacon power-end condition monitor can simply and effectively provide early warning notification, enabling proactive action to extend L-10 bearing life to the ISO/ASME "design rating" and beyond.

### ***Straightforward Visual Alert***

Mounted on top of the bearing housing, the intrinsically safe IPS Beacon monitors the temperature and vibration against pre-set limits. When an alert takes place, the time and date stamp is logged.

- Blinking green LED indicates normal operation.
- Blinking red LED indicates a current alert condition.
- Blinking red and green LEDs indicate a past alert condition has occurred but current condition is normal.

### ***User Configurable and Expansion Capability***

**External USB Docking Plus PC-based Software** provides the ability to change alarm set points and read all state of health data from the IPS Beacon such as past alerts (time and date) for the corresponding x-y-z vibration and temperature values along with current battery voltage.

**Take-away Memory Module (TAM)** provides the IPS Beacon with expanded data logging capability. The data can then be downloaded through the USB Docking Device to provide the user with each time-stamped measurement value for up to one year of readings, depending on the configuration of the IPS Beacon.

**Easy Retrofit Capability** means the IPS Beacon can provide cost-effective condition monitoring of large populations of rotating equipment.

### Features and Benefits

**Three-axis Vibration Sensor** measures overall vibration readings in velocity 0 to 25.4 mm/s (0–1 in/s) RMS.

**Temperature Sensor** measures surface temperature readings from -40°C to 93.3°C (-40°F to 200°F).

**Material of Construction** is 316L stainless steel housing with borosilicate glass-protected LEDs that provide vivid status indications in chemical environments.

**14-day Fault Indication** provides extended visual notification of an alert condition, even if monitored levels return to normal.

**Battery Life** can be more than four years, depending on the environment and operating parameters.

**Certifications:** include CE, CSA (CL 1, Div. I, Groups A, B, C, and D), ATEX and IECEx (CL 1 Zone 0).



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IECEx SIR 12.0074  
Sira 12ATEX2188  
Ex ia IIC T4 Ga  
Ex ia IIIC T135°C Da  
-40°C ≤ Ta ≤ +85°C

**Model: VB-105 Beacon**



CSA 2012 2554102  
CL I, Division 1, Grps A, B, C, D; T4  
CL I, Zone 0, Ex ia IIC T4  
CL I, Zone 0, AEx ia IIC T4  
Tem. Code T4  
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Part of:  
IECEx SIR 12.0074  
Sira 12ATEX2188

**Model: VB-105 TAM**

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