



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).



Flowserve
Houston, TX 77064 USA
CE 0518 Ex II 1GD

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



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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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CE 0518 Ex II 1GD Model: VB-105 TAM

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