Accurately sense plunger arrival using 3-D technology

The 3DSO® from PCS Ferguson is the first plunger arrival sensor of its kind. Driven by an embedded microprocessor, the 3DSO continually self-calibrates to filter out environmental noise. It uses advanced 3-D technology—like that used in military and navigation applications—to detect the plunger in multiple axes. This unique combination of features ensures accurate plunger arrival detection every time.

Mounted on the surface lubricator, the 3DSO detects the plunger’s arrival and activates the controller to the appropriate mode for gas sales or shut-in. The arrival sensor’s proprietary technology represents a significant advancement in plunger arrival sensing, making the 3DSO the most reliable arrival sensor on the market.

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**ENCLOSURE**
- Rugged aluminum housing for protection against harsh weather conditions
- Housing is equipped with NPT ½” female connection for wiring flexibility
- Electrical components are potted to prevent moisture penetration

**POWER**
- Operating voltage 4.5 to 36 volts (current consumption approximately 1mA)
- Temperature Rating: Operating temperature range of -40° to 85° C (185° F)
- MET Class 1, Div 1 & Div 2, Group C & D

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The 3DSO is truly a “smart” plunger arrival sensor!
The 3DSO can now be connected to your PC to view real-time data and adjust sensitivity for optimal performance:
- Saves the last 20 plunger arrivals in memory.
- Monitors plunger arrival in real-time.
- Allows you to view magnetic field data in real-time.
- Gives you the option to adjust sensitivity.

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**Accurate Arrival Detection**
The 3DSO is the first arrival sensor with a microprocessor that continually calibrates to the well, providing the intelligence to eliminate false arrival reports. The 3-D technology detects the plunger using three coils in three axes (X, Y and Z) to penetrate through the lubricator and sense the plunger’s arrival.

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**Improvements**
- Components are now electrically isolated from the wellhead to eliminate ground loop issues, and the buna pad no longer required for installation.
- Algorithms have been fine-tuned to eliminate false triggering.
- Power supply input range has been increased to 4.5 - 36 VDC. This allows compatibility with even more controllers.

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**Maximizes Production & Efficiency**
By accurately sensing the plunger’s arrival every time, the 3DSO allows for optimal plunger lift operations. Because it continually self-calibrates, it offers virtually maintenance-free operation, eliminating operator intervention and production downtime.

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For more information, please contact your local sales and service representative or visit us online at www.doverals.com