

THE FAUDI AVIATION RANGE OF SENSORS

In addition to filter vessels and filter elements Faudi Aviation also offers a range of sensors which are the next generation for online monitoring of the whole range of fuel transfer operations.

DPGUARD®

The Faudi DPGUARD® is a fully automated computer that calculates the corrected Differential Pressure (DP) across a filter vessel. It takes an input signal from both an electronic DP Gauge and a flow meter and uses the information gathered to calculate the real time corrected DP. By constantly monitoring the condition of the filter elements, it means the system cannot be cheated by deliberately reducing the flow rate if the DP starts to rise. The DPGUARD® can be linked to an alarm system that will sound when the filter elements have a DP which means they must be changed. As an added safeguard, the DPGUARD® can be linked into the vehicle deadman system so that if the actual DP or corrected DP reaches 22 psi, the vehicle will cease fuelling as required in the JIG Bulletin 58. There are two versions of the DPGUARD® available and depending on the customer requirement they can use either the Gold or Silver version. The DPGUARD® Gold has a configurable colour touch screen which can display the flow rate, the actual DP and the corrected DP. The DPGUARD® Silver is a simplified version of the Gold and does not come with a screen. This option is often preferred in situations where it is either not necessary to see the corrected DP at the filter vessel or where the customer already has a system that will display the information generated by DPGUARD®.



AFGUARD®

The Faudi aviation AFGUARD® is a scattered light sensor that provides a continuous measurement of the free water content in Jet Fuel utilising a light source and mirror, and it also has the capability to detect 100% water slugs. The unit has a built in fail safe feature and is fully ATEX approved for use in Zone 0 and Zone 1 hazardous areas. The AFGUARD® fits directly into the pipework using a 3/4 inch BSPP female boss and can be installed at any point in the fuel supply chain. It has a 4-20 mA output signal and will interface with a variety of on board cab computer systems, smart registers and DPGUARD®.



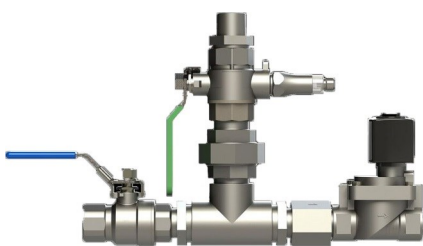
SLUGGUARD®

The Faudi aviation SLUGGUARD® is commonly installed in vessel sumps and pipelines to detect when water is present in the fuel. It is a compact unit that does not require calibration or maintenance and is available with or without an LED. The LED lights up when it detects a 100% water slug in the fuel and both options can be linked into an alarm system if required. It can be used either alone or in conjunction with the Faudi Aviation DRAINGUARD® below.



DRAINGUARD®

The Faudi aviation DRAINGUARD® is a fully automated drainage system that is fitted in the sumps of Filter Water Separators. It uses the SLUGGUARD® to detect water in the fuel and when the water reaches a predetermined level it sends a signal to the control unit. The control unit in turn sends a signal to the electronic drain valve causing it to open and allow the water to drain through the drain line. Once the water level has fallen below the required level the drain valve will close and normal operation will resume.



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