

The FAUDI Aviation AFGUARD® is a measurement system, which supervises the quality of Jet Fuels.

The AFGUARD® is recommended for insitu measurement of particulate matter in Jet Fuel like free water. The AFGUARD® is a scattered light sensor and is designed to provide inline control solution for a variety of processes.

Functionality: A precisely defined, constant light beam penetrates the process medium. Scattered light from particles (undissolved liquids like free water or gas bubbles) in the medium is detected by photo diodes. It is also possible to determine a water slug in Jet Fuel.

The AFGUARD® can be used perfectly to detect the functionality of Filter Water Separators or to measure the water absorbing performance of Filter Monitors. This can be done by measuring the level of free water detected by AFGUARD® sensors, placed at the vessel inlet and outlet. Free water will be detected and, with AFGUARD® in place, the monitors are under constant surveillance to insure their proper function.

Extended service life for FAUDI Aviation Elements could be a result – provided that the indicated differential pressure range is observed.



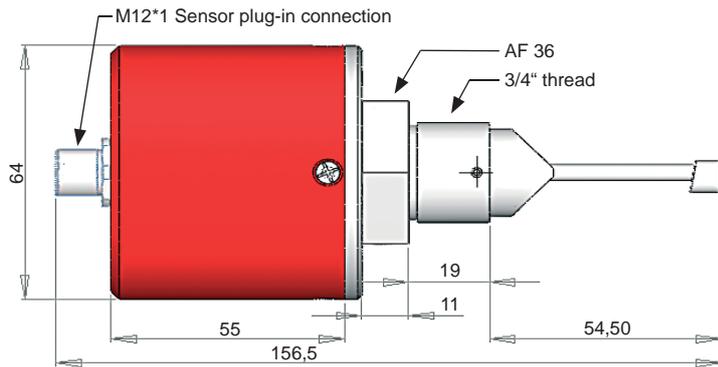
## Technical Details

Measurement range	0 - 50 ppm or 0 - 100 ppm
Accuracy	+/- 3 ppm
Linear analog output signal	4 to 20 mA
Contact Load DC	24 V DC
Available variants	intrinsically safe / safe area version
Hazardous area approvals	 II 1/2G Ex ib [ia] IIB T4 II 1/2G Ex ia IIB T4
	 II 3G Ex ic IIB T4
Ingress protection	IP 67
Operating temperature	-30 to + 60 °C
Storage temperature	-30 to + 70 °C
Relative humidity	10 to 90 %
Pressure range	10, 16 bar
Wrench size	AF 36
Torque	50 Nm

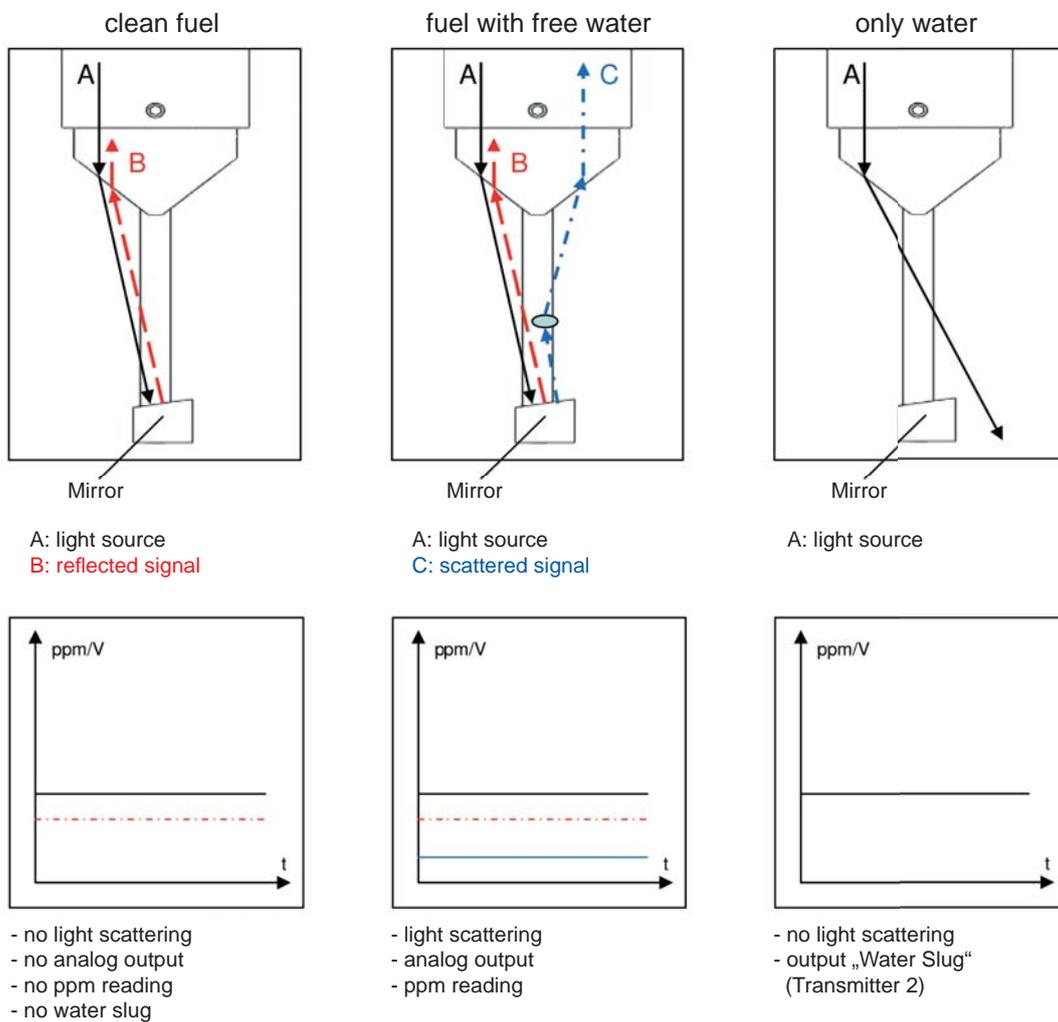
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**Dimensions**



**Operation Mode**



**Features**

- Output for Water Slug
- Detects water inline
- Self check of diodes and contaminations
- Power Supply 24 VDC
- Installation 3/4" Thread
- Easy installation retrofit in existing systems
- Hazardous Area Approval

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