

### Qualified to specification EI 1598 2nd Edition

Electronic sensor for the detection of free water in aviation fuels. The AFGUARD® is recommended for use downstream of all EI-qualified filtration technologies to verify filter performance. It is designed to interface with various Programmable Logic Controllers (PLC).

The AFGUARD® is qualified for use as an alternative to Chemical Water Detectors (CWD) by JIG.

#### References:

- Accepted by Joint Inspection Group (JIG)
- Recommended by IATA Fuel Quality Pool (IFQP)
- Fully hazardous-area (ATEX and IECEx) approved
- Performance tested under various environmental conditions
- In the market for more than 10 years



### Application Area

- Electronic sensor according to EI 1598 2nd Edition
- Fit for purpose on civil and military mobile into-plane fuelling applications
- To be used in conjunction with EI-qualified filtration technology
- Suitable to aviation fuels with FSII

### Technical Data

#### Input

- Measuring range: 0 ... 50 ppm (accuracy depending on calibration)  
Water slug

#### Environmental conditions

- Operating temperature range: -30°C (-40°F) to 60°C (140°F)
- Storage temperature range: -40°C (-40°F) to 75°C (167°F)
- Rel. humidity: 10 % ... 90 %
- Ingress protection acc. EN 60529: IP67
- Operating pressure: 16 bar

#### Performance and parameter

- Voltage  $U_o$ : 30 V DC
- Current  $I_o$ : 100 mA
- Power  $P_o$ : 750 mW

#### Output

- Linear signal output: 4 to 20 mA

### Data For Application In Connection With Hazardous Areas

ATEX:	II 1/2G Ex ia/ib IIB T4 Ga/Gb II 1/2G Ex ia IIB T4 Ga/Gb
IECEX:	Ex ia/ib IIB T4 Ga/Gb Ex ia IIB T4 Ga/Gb

### Standard Design

- Material:
  - Sensor head SS 1.4301
  - Glass rod Optical glass
  - Sealing Klingersil, FKM
- Process connection: G<sup>3/4</sup> inch

### Dimensions

