Logic Controller

Contamination Control System (CCS) gold



Developed for aviation refuelling applications

Fully automatic touchscreen controller for use in combination with the AFGUARD® Electronic Water Sensor. The Contamination Control System (CCS) provides an easy to use interface that is constantly processing the actual water content in aviation fuels. The CCS is designed to process a warning/alarm signal if free water reaches a critical level.

The logic controller is compliant to JIG Technical Bulletin No. 110 regarding alert, alarm and data storage requirements.

There are two versions of the CCS available, entitled gold or silver version depending on the requirement. The CCS gold has a configurable colour touch screen that can display the actual water content. Connected to a flashing lamp it will provide an alert through sensor measurings. The CCS silver version is designed to be integrated into third party PLCs that are AFGUARD®-ready, and fully configurable to customer needs.



Application Area

To process the actual water content during into-plane fuelling

Technical Data

• Power supply: 24 V DC ±10%

• Degree of protection: IP65

• Signal transfer: Ethernet, LAN, WIFI

Connections:
8 digital input: 24 V DC ±10%
4 digital output: 24 V DC

4 analog input: 0...20 mA

3 relay output

Communication protocol:

Modbus TCP

Operating temperature range:
 -30°C (-22°F) to + 60 °C (140°F)

Features

The CCS provides alarm indication when water content reaches a critical level. It offers close range connectivity via Ethernet and WiFi connection for longer range connectivity.

www.faudi-aviation.com

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Connection

- · Communciation to smartphones and tablets with Android or IOS operating system
- Connection of up to two AFGUARD®
- dP-Transmitter with a signal output of 4...20 mA
- Connection of registers and other flowsignals (pulsed on 4 ... 30 mA)

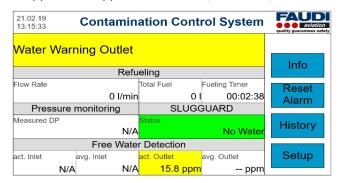
Diagnostics

· Status: O.K.



• Status: Warning

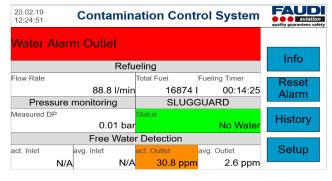
Sensor indication between 15 ppm and 30 ppm of free water (Alert Level)



• Status: Alarm

Sensor indication at or above 30 ppm of free water (Alarm Level), giving a different flashing lamp indication from Alert Level **or**

An Alarm Level will be activated for sensor indications at or above 50 ppm of free water for >5 sec



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