

Cvi

Global Challenges, Innovative Solutions.

model **CFD-II** CONTAMINATED FUEL DETECTOR



Contaminated Fuel Detector

NSN 6630-01-013-5279

Cvi P/N: 408001

www.cvintl.com

AGILE, INNOVATIVE.

Description - The Cv International CFDII Contaminated Fluid Detection system combines the advantages of a portable contamination measurement unit with the measurement technology of the TestMateR Contamination Monitor (TCM) and TWS (TestMateR Water Sensor), in a portable, field-ready package for fuel applications.

The 408001 is a portable service unit and is designed for temporary measurement of solid particle contamination and water saturation in *aviation fuel JP5 and F44, F76, Hydraulic and Diesel oil storage, transfer and filling applications.*

The 408001 will measure contamination levels of *aviation fuel JP5 and F44, F76, diesel fuel, as well as mineral based hydraulic oils* compatible with VitonR seals. The 408001 is not compatible with water glycol fluids.

The integrated pump and the hoses with test point connections, which are included with the 408001, allow operation on diesel fuel storage tanks and transfer circuits, as well as on hydraulic reservoirs, control circuits, and pressure circuits.

To ensure safe operation with diesel fuel, the 408001 is equipped with a grounding wire, along with an integral temperature monitoring system to ensure the device switches off when operated above the critical temperature of diesel fuel (113°F, 45°C).

Country of Origin: Germany

TECHNICAL SPECIFICATIONS

Self-Diagnosis

Continuously with error indication via status LED and display

Measured Value

ISO code/ SAE Class / NAS Class / Saturation Level / Temperature

Measuring Range

Display from ISO code 9/8/7 (MIN) to ISO code 25/24/23 (MAX) Calibrated within the range ISO 13/11/10 to 23/21/18 Saturation level 0 to 100% / Temperature -13° to 212°F (-25 to 100°C)

Accuracy

±1/2 ISO class in the calibrated range / ± 2 % Full scale max for Water Sat. and Temp

Seal Material

FPM seals

Ambient Temperature Range

32 to 113°F (0 to 45°C)

Storage Temperature Range

-40° to 176° Fahrenheit (-40° to 80° Celcius)

Dimensions (cover closed)

9.06" H x 16.14" L x 13"D

IP class

IP50 in operation IP67 closed

Weight

approx. 29 lbs (13 kg) without accessories

With Diesel According to ASTM D975 4-D or DIN EN 5902

IN: 0 psi (0 bar) OUT: 0 psi (0 bar)

HYDRAULIC DATA

Hydraulic Fluid Operating Pressure

in: -7.25 to 650 psi (-0.5 to 45 bar) out: 0 to 7.5 bar (0 to .5 psi)

with Adaptor for Pressure Lines

in: 15 to 345 bar / 217 to 5000 psi out: 0 to 0.5 bar / 0 to 7.5 psi

Pressure Max.

5000 psi (345 bar)

Permissible Viscosity Range

3 to 1622 SUS (1.5 to 350 cSt)

Fluid Temperature Range

32 to 158°F (0 to 70°C), or up to 113°F (45°C) for diesel fuel

ELECTRICAL DATA

Power Supply Voltage

24 VDC ±20%, residual ripple < 10%

Max. Power / Current Consumption

100 Watt / 4 A

Interface

Plug connection, 5-pole, male, M12x1 and USB



MODEL CFD-II

Features:

- Particulate contamination is detected with an optical measurement cell
- Automatic measurement and display of cleanliness ratings as ISO 4406:1999; SAE AS 4059, and NAS 1638
- Measurement Accuracy +/- 1/2 ISO code
- Supply voltage 24 VDC
- Integrated pump for automatic control of oil flow
- Viscosity range: 33 to 1622 SUS
- Dimensions: 16.14" W x 13" D x 9.06" H

CFD-II

Part Number: 408001

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