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Contaminated Fluid Detector— CFD II

Part Number: 408001
NSN: 6630-01-013-5279



Technical Specifications

General Data	
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° Farenheith (-40° to 80° Celcious)
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

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, Hydraulic and Diesel oil storage, transfer and filling applications.*

The 408001 will measure contamination levels of *aviation fuel JP5 and F44, 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).

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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

