

The FluidControl Unit FCU 1310 series combines the advantages of the portable contamination measurement units with the measurement technology of the TestMate® Contamination Monitor (TCM) and TWS (TestMate® Water Sensor), in a portable, field-ready package for diesel fuel applications.

The FCU 1310 is a portable service unit and is designed for temporary measurement of solid particle contamination and water saturation in diesel storage, diesel transfer and diesel filling applications. Measuring contamination levels of diesel fuel, as well as mineral based hydraulic oils compatible with Viton® seals. The FCU 1310 is not compatible with water glycol fluids.

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

VISCOSITY RANGE 33 to 1622 SUS (2 to 350 cSt)

VOLTAGE

INTEGRATED PUMP for automatic control of oil flow

MEASUREMENT ACCURACY +/- 1/2 ISO code

of cleanliness ratings

as ISO 4406:1999; SAE

AS 4059, and NAS 1638

detected with an optical

PARTICULATE

CONTAMINATION

measurement cell

(0 - 100%)

WATER SATURATION

To ensure safe operation with diesel fuel, the FCU 1310 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).



TECHNICAL SPECIFICATIONS AUTOMATIC MEASUREMENT

USB DOWNLOAD PORT

Self-Diagnosis **Measured Value Measuring Range**

Continuously with error indication via status LED and display ISO code / SAE Class / NAS Class / Saturation Level / Temperature 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°F to 212°F (-25°C to 100°C) \pm 1/2 ISO class in the calibrated range / \pm 2 % Full scale max for Water Sat. and Temp.

Material of Sealings FPM seals Ambient Temperature Range Storage Temperature Range Dimensions (cover closed)

Accuracy

32°F to 113°F (0°C to 45°C) -40°F to 176°F (-40°C to +80°C) 9 06" H x 1614" L x 13"D

IP50 in operation, IP67 when closed IP Class Weight Approx. 29 lbs (13 kg) without accessories With Diesel According to IN: O nsi (O har)

ASTM D975 4-D or DIN EN 590 OUT: 0 psi (0 bar) HYDRAULIC DATA

Hydraulic Fluid Operating Pressure with Adapter for Pressure Lines

IN: -7.25 to 650 psi (-0.5 to 45 bar) OUT: 0 to 7.5 psi (0 to 0.5 bar) IN: 217 to 5000 psi (15 to 345 bar) OUT: 0 to 7.5 psi (0 to 0.5 bar) 5000 psi (345 bar)

Pressure Max. Permissible Viscosity Range 33 to 1622 SUS (1.5 to 350 cSt) Fluid Temperature Range ELECTRICAL DATA

 $32^{\circ}F$ to $158^{\circ}F$ ($0^{\circ}C$ to $+70^{\circ}C$), or up to $113^{\circ}F$ ($45^{\circ}C$) for diesel fuel

Power Supply Voltage Max. Power/Current Consumption

100 Watt / 4 A Interface Plug connection, 5-pole, male, M12x1 and USE

24 VDC ± 20%, residual ripple < 10%

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