



FMS-FCU-1315

FLUID CONTROL UNIT

NFPA/T2/6/1
BURST & FATIGUE RATING

ISO 3968
Pressure Drop vs Flow

**PREVENTIVE
MAINTENANCE
MAXIMUM
EFFICIENCY**



OUTLET PORT

INLET PORT

USB DOWNLOAD PORT

PUMP ON/OFF SWITCH

DISPLAY
AND KEYPAD

POWER SUPPLY CONNECTOR 24 VDC

DATA
INTERFACE
(DATA)

The FluidControl Unit FCU 1315 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 1315 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 1315 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.

AUTOMATIC MEASUREMENT

of cleanliness ratings
as ISO 4406:1999; SAE
AS 4059, and NAS 1638

**PARTICULATE
CONTAMINATION**
detected with an optical
measurement cell

WATER SATURATION
(0 - 100%)

FEATURES & BENEFITS

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

**SUPPLY
VOLTAGE**
24 VDC

INTEGRATED PUMP
for automatic
control of oil flow

**MEASUREMENT
ACCURACY**
+/- 1/2 ISO code

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°F to 212°F (-25°C to 100°C)
Accuracy	± 1/2 ISO class in the calibrated range / ± 2 % Full scale max for Water Sat. and Temp.
Material of Sealings	FPM seals
Ambient Temperature Range	32°F to 113°F (0°C to 45°C)
Storage Temperature Range	-40°F to 176°F (-40°C to +80°C)
Dimensions (cover closed)	9.06" H x 16.14" L x 13"D
IP Class	IP50 in operation, IP67 when closed
Weight	Approx. 29 lbs (13 kg) without accessories
With Diesel According to	IN: 0 psi (0 bar)
ASTM D975 4-D or DIN EN 590	OUT: 0 psi (0 bar)
HYDRAULIC DATA	
Hydraulic Fluid	IN: -725 to 650 psi (-0.5 to 45 bar)
Operating Pressure	OUT: 0 to 7.5 psi (0 to 0.5 bar)
with Adapter for Pressure Lines	IN: 217 to 5000 psi (15 to 345 bar)
	OUT: 0 to 7.5 psi (0 to 0.5 bar)
Pressure Max.	5000 psi (345 bar)
Permissible Viscosity Range	33 to 1622 SUS (1.5 to 350 cSt)
Fluid Temperature Range	32°F to 158°F (0°C 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

To ensure safe operation with diesel fuel, the FCU 1315 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).

Schroeder
INDUSTRIES
Advanced Fluid Conditioning Solutions®