

Features and Benefits

- 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 (2 to 350 cSt)
- Water saturation (0 - 100%)

Description

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.

The FCU 1315 will measure 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 with the FCU 1315, 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 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).

Applications

- Diesel Storage
- Diesel Transfer and Filling
- Diesel Service and Maintenance

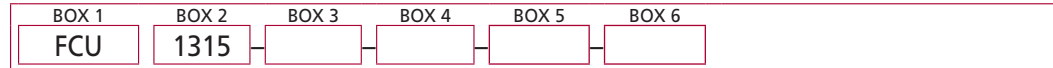
Specifications

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

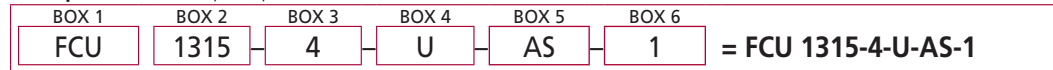
Hydraulic Data:	Hydraulic Fluid	IN: -7.25 to 650 psi (-0.5 to 45 bar)
	Operating Pressure:	OUT: 0 to 7.5 psi (0 to 0.5 bar)
with Adapter for Pressure Lines: IN: 217 to 5000 psi (15 to 345 bar) OUT: 0 to 7.5 psi (0 to 0.5 bar)		
Pressure Max.: 5000 psi (345 bar)		
Permissible Viscosity Range: 33 to 1622 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

Specifications

How to Build a Valid Model Number for a Schroeder FCU:



Example: NOTE: One option per box



BOX 1	BOX 2	BOX 3	BOX 4
Model	Series	Pump Option	Supply Voltage
FCU	1315 = ISO 4406:1999; SAE AS 4059 / > 4 µm(c) > 6 µm(c) > 14 µm(c) > 21 µm(c), For Use With Diesel According to ASTM D975 4-D and DIN EN 590, as well as Hydraulic and Lubrication Fluids Based on Mineral Oils	4 = with Integral Pump	U = 24 V DC
		BOX 5	BOX 6
		Integral Sensor	Options
		AS = TestMate® Water Sensor	Omit = None 1 = 100-240 V AC, 50/60 Hz, 1 Phase, 5 A Power Supply Adapter

Model Number Selection

We do not guarantee the accuracy or completeness of this information. The information is based on average working conditions. For exceptional operating conditions, please contact our technical department. All details are subject to technical changes.

Items supplied with FCU 1315-4-U-AS-1 include:

- FluidControl Unit (FCU 1315)
- Power supply AC adapter with connecting cables to supply voltage for Europe, USA/Canada, UK, Australia, and Japan
- Adapter for pressure lines
- Adapter for clear suction hose
- Inlet pressure hose with screw connection for 1620 test point, length = 2 meters (approx. 79 inches)
- Inlet suction pipe (metallic) for bottle sampling
- 2x suction/return hoses, clear, quick couple terminations, 1 meter (approx. 39 inches)
- Operation Manual & Calibration Certificate
- CD Rom of FluMoS Light Software
- USB Flash Drive (which includes Operation and Maintenance Instructions in other languages)
- Grounding Terminal

Accessories:

- Battery Pack (approx. 5 hours of use) Part No. 3504605
- Field Verification Startup Kit - Part No. 3443253
- Field Verification Kit (fluid only) - Part No. 3443249