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).

### Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Self-Diagnosis: Continuously with error indication via status LED and display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured Value</td>
<td>ISO code / SAE Class / NAS Class / Saturation Level / Temperature</td>
</tr>
<tr>
<td>Measuring Range</td>
<td>Display from ISO code 9/8/7 (MIN) to ISO code 25/24/23 (MAX)</td>
</tr>
</tbody>
</table>

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:**

- **Operating Pressure:**
  - IN: -7.25 to 650 psi (-0.5 to 45 bar)
  - OUT: 0 to 7.5 psi (0 to 0.5 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

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

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCU</td>
<td>1315</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Example: NOTE: One option per box

<table>
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<tr>
<th>BOX 1</th>
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<th>BOX 3</th>
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<th>BOX 5</th>
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</tr>
</thead>
<tbody>
<tr>
<td>FCU</td>
<td>1315</td>
<td>4</td>
<td>U</td>
<td>AS</td>
<td>1</td>
</tr>
</tbody>
</table>

= FCU 1315-4-U-AS-1

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**Specifications**

**Model Number Selection**

**FCU 1315**

- **Series:**
  - FCU = 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

**Interface:**

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

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**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