



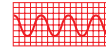
**Digital Imaging Particle Counter** - measures contamination per ISO, NAS and SAE standards; sorts particles into fatigue, cutting and sliding wear categories, as well as fibers and air bubbles



**Water Sensor** - shows relative humidity of oil as % saturation



**Oil Life Sensor** - gives warning of oil life ending and also helps inform if an oil change is required




**Touch Screen** - allows users to navigate operational functions with ease and analyze data



**Internal Gear Pump** - with bypass for processing pressurized and non-pressurized vessels

## Features & Benefits

 Part of the Schroeder Industries 2030 Initiative

The Schroeder Pro: Total Fluid Health is a revolutionary portable service unit, designed to measure and differentiate particulate contamination, as well as determine oil life, relative water content, and temperature. This real-time insight into the health of synthetic, organic, and mineral oils, as well as diesel fuel, helps users make informed decisions with regard to fluid replacement and treatment planning.

## Description

<b>General Data</b>	<p><b>Measured Variables:</b> Particle Differentiation / ISO Code / SAE Class / NAS Class / TAN-Delta Number (Oil Life) / Saturation Level / Temperature</p> <p><b>Particulate Measurement Standards:</b> ISO 4406 (<math>\geq 4_{(c)}</math> / <math>\geq 6_{(c)}</math> / <math>\geq 14_{(c)}</math> / <math>\geq 21_{(c)}</math> / <math>\geq 38_{(c)}</math> / <math>\geq 70_{(c)}</math> / <math>\geq 100_{(c)}</math>), NAS 1638, SAE AS4059</p> <p><b>Particle Counter Measuring Range:</b> Maximum ISO Code of 29</p> <p><b>Accuracy:</b> <math>\pm 0.5</math> ISO Code (Minimum concentration ISO MTD 2.8mg/L)</p> <p><b>Operating Temperature Range:</b> 32°F to 122°F</p> <p><b>Fluid Compatibility:</b> Mineral-based oils, Synthetic oils, Organic oils, Diesel Fuels</p> <p><b>Dimensions (cover closed):</b> (L) 16.2" x (D) 12.7" x (H) 6.7" (main device; accessory case: (L) 22.6" x (D) 20.9" x (H) 8.0")</p> <p><b>Environmental Protection:</b> IP67 (cover closed) IP54 (cover open)</p> <p><b>Maximum Ambient Humidity:</b> 97% relative humidity, non-condensing</p> <p><b>Weight:</b> 26.5 lbs. (12.0kg) (main device; accessory case: 19lbs. [8.6kg])</p> <p><b>Calibration Verification Frequency:</b> 12 months recommended</p>
<b>Hydraulic Data</b>	<p><b>Inlet Pressure:</b> 36.3 psi (2.5 bar) Max. (5075 psi [350 bar] w/ adapter for pressurized lines)</p> <p><b>System Pressure:</b> 145 psi (10 bar) Max.</p> <p><b>Permissible Viscosity Range:</b> 1-2400 cSt (1-300 cSt with high pressure adapter)</p> <p><b>Operating Temperature:</b> 32°F to 122°F</p> <p><b>Fluid Temperature Range:</b> 14°F to 131°F (oils) 14°F to 122°F (diesel fuel)</p> <p><b>Pump Type:</b> Gear</p> <p><b>Duty Cycle:</b> Continuous</p> <p><b>Connections:</b> 1604 minimes test points, with 0.6m long 8mm tubing</p>
<b>Electrical Data</b>	<p><b>Power Supply Voltage:</b> 115V AC</p> <p><b>Nominal Battery Voltage:</b> 15.0V DC</p> <p><b>Charge Voltage:</b> 16.8V DC</p> <p><b>Charge Capacity:</b> 5.2Ah</p> <p><b>Charge Time:</b> 2 hours (80%) / 5 hours (100%)</p> <p><b>Run Time:</b> Up to 6 hours (viscosity dependent)</p> <p><b>Data Transmission:</b> Internet, USB</p>

## Specifications

## Model Selection



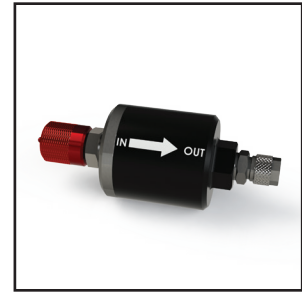
Schroeder Pro Series:  
Total Fluid Health

7641078



Schroeder Pro Series:  
Accessory Kit

*Included w/ Schroeder Pro*



Schroeder Pro Series: High  
Pressure Adapter

*Sold Separately*

7641529

## Items Supplied

- Schroeder Pro: Total Fluid Health Unit
- **Items included w/ included accessory kit:**
  - 120VAC Power Supply (charger)
  - Hotplate
  - Temperature probe
  - Magnetic stirrer
  - 100 mm wide funnel
  - (2) 100 mL sampling bottles
  - Sampling/vacuum pump
  - USB memory stick
  - (2) stoppers (8mm hole)
  - Viscosity cup
  - High-pressure device
  - (2) solid stoppers
  - (2) 500 mL flasks
  - Storage compartment for hoses and cables

## Applications



Power Generation



Industrial Hydraulics



Wind Power



Steel Making



Off Road Mining &  
Construction



Marine