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

- **Laser Particle Counter** - 4, 6, 14, & 21 micron counts displayed as ISO, NAS, & SAE
- **Water Sensor** - shows relative humidity of oil as % saturation
- **Internal Gear Pump** - with bypass for processing pressurized and non-pressurized vessels
- **Digital Imaging** - sensor sorts particles into fatigue, cutting, sliding wear, and fiber categories to estimate cause of contamination
- **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

### Specifications

#### Measured Variables:
- Particle Differentiation / ISO Code / SAE Class / NAS Class / TAN-Delta
- Number (Oil Life) / Saturation Level / Temperature

#### Particulate Measurement Standards:
- ISO 4406 (≥4(c) / ≥6(c) / ≥14(c) / ≥21(c) / ≥38(c) / ≥70(c) / ≥100(c)), NAS 1638, SAE AS4059

#### Particle Counter Measuring Range:
- Maximum ISO Code of 29
- Accuracy: ±0.5 ISO Code (Minimum concentration ISO MTD 2.8mg/L)

#### Operating Temperature Range:
- 32°F to 122°F

#### Fluid Compatibility:
- Mineral-based oils, Synthethic oils, Organic oils, Diesel Fuels

#### Dimensions (cover closed):
- (L) 16.2" x (D) 12.7" x (H) 6.7"

#### Environmental Protection:
- IP67 (cover closed)
- IP54 (cover open)

#### Maximum Ambient Humidity:
- 97% relative humidity, non-condensing

#### Inlet Pressure:
- 36.3 psi (2.5 bar) Max.
- (5075 psi [350 bar] w/ adapter for pressurized lines)

#### System Pressure:
- 145 psi (10 bar) Max.

#### Permissible Viscosity Range:
- 1-2400cSt (1-300 cSt with high pressure adapter)

#### Operating Temperature Range:
- 32°F to 122°F

#### Fluid Temperature Range:
- 14°F to 131°F (oils)
- 14°F to 122°F (diesel fuel)

#### Pump Type:
- Gear

#### Duty Cycle:
- Continuous

#### Connection:
- 1604 minimess test points, with 0.6m long 8mm tubing

#### Power Supply Voltage:
- 115V AC

#### Nominal Battery Voltage:
- 15.0V DC

#### Charge Voltage:
- 16.8V DC

#### Charge Capacity:
- 5.2Ah

#### Charge Time:
- 2 hours (80%) / 5 hours (100%)

#### Run Time:
- Up to 6 hours (viscosity dependent)

#### Data Transmission:
- Internet, USB

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Part of the Schroeder Industries Energy Sustainability Initiative
- Schroeder Pro: Total Fluid Life

**Accessory Kit with included items:**
- 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