Schroeder Pro Total Fluid Health

**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

**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, Synthetic oils, Organic oils, Diesel Fuels

**Dimensions (cover closed):**
- (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")

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

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

**Calibration Verification Frequency:** 12 months recommended

**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:** 14°F to 131°F (oils)
- 14°F to 122°F (diesel fuel)

**Pump Type:** Gear

**Duty Cycle:** Continuous

**Connection:**
- 1604 minimes 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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**Description**

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.

**Features & Benefits**

- **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

- **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

- **Digital Imaging** - sensor sorts particles into fatigue, cutting, sliding wear, and fiber categories to estimate cause of contamination

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**Specifications**

- **Measurement Standards & Ranges:**
  - Laser Particle Counter
  - Water Sensor
  - Internal Gear Pump
  - Oil Life Sensor
  - Touch Screen
  - Digital Imaging

- **Dimensions & Protection:**
  - Dimensions (cover closed)
  - Environmental Protection

- **Operating & Storage Conditions:**
  - Temperature
  - Humidity

- **Electrical Specifications:**
  - Power Supply Voltage
  - Nominal Battery Voltage
  - Charge Voltage
  - Charge Capacity
  - Charge Time
  - Run Time
  - Data Transmission

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Part of the Schroeder Industries 2030 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