

HIAC PODS

Portable Oil Diagnostic System

Features

- Efficient and intuitive to use
- Immediate laboratory-quality on-site results
- Reports SAE and ISO cleanliness classifications, 4/6/14 $\mu\text{m}(c)$
- Harmonizes NAS 1638 to new MTD calibration
- Full ISO 11171 calibration options
- Standard bottle and online modes; multiple language support

Applications

- Allows for proactive maintenance
- Monitor system operations
- Extend system reliability
- Certify manufacturing “roll off”
- Identify maintenance cycles
- Schedule repair periods
- Track online system cleanliness

Laboratory Precision without the Lab

The HIAC PODS monitors the dirtiest of fluids due to its concentration limit of 30,000 particles/mL. Superior optics and design provide eight channels for particle counting, as well as measurement of viscosity and temperature to assess fluid conditions. Versatile in operation, the PODS offers compatibility with standard hydraulic fluids, oils and phosphate esters. A rugged carrying case ensures durability and the convenience of portability. The HIAC PODS contains a buffer for 500 records. The PODSControl analysis software provides real-time data download and visualization, as well as data analysis, formatting and reporting.

The HIAC PODS features a wide array of reporting formats, including ISO 4406, NAS 1638 and SAE AS 4059. The HIAC PODS can report to both the new MTD $\mu\text{m}(c)$ sizes (4/6/14) or to the previous ACFTD μm sizes (2/5/15). Unlike other portable particle counters on the market, the PODS unit fully supports the ISO 11171 standard. Whether calibrated to the new ISO 11171 standard or the optional ISO 4402 standard, the HIAC PODS meets industry demands.



Intelligent and robust, the HIAC Portable Oil Diagnostic System (PODS) measures, stores and reports oil condition parameters essential for reliable hydraulic systems operation. The HIAC PODS analyzes fluids and lubricants in online or bottle sampling modes to determine the machine's operating condition immediately.

This instant analysis is as accurate and precise as traditional laboratory analysis that normally takes weeks. Thus, providing a real-time assessment of the oil under operating conditions.



Be Right™

Specifications

Number of Channels	8	
Size Channels	ISO-MTD (standard)	4, 4.6, 6, 9.8, 14, 21.2, 38, 68 µm
	ACFTD (optional)	~1, 2, 5, 10, 15, 25, 50, 100 µm
Flow Rate	50 mL/min standard (consult factory for optional offerings down to 15 mL/min)	
Light Source	Laser diode	
Calibration	ISO MTD (based on ISO 11171)	
	Full ISO 11171 or ISO 4402 optional	
Counting Efficiency	Meets JIS B9925:1997	
Concentration Limit	20,000 particles/mL at 5% coincidence loss (per ISO 11171)	
	30,000 particles/mL at 10% coincidence	
Sample Volume	3 runs (averaged) of 5, 10 or 20 mL (programmable)	
Fluid Temp Range	0 to 90°C at 25°C ambient (32 to 194°F at 77°F ambient)	
Measured Fluid Temperature	0 to 100°C, ±0.5°C (32 to 212°F, ±0.9°F)	
Viscosity Range	10 to 424 cSt	
Measurement	10 to 424 cSt ±20% at value	
Wetted Materials	Aluminum, stainless steel, sapphire, PTFE and Aflas®	
Cleanliness Classification	ISO 4406-1991, ISO 4406.2-1999, NAS 1638, MIL-STD-1246C, NAVAIR 01-1A-1, SAE AS 4059	
Data Storage	500 Sample Records	
Dimensions	17.8 D x 33.0 W x 35.6 H cm (7 x 12.5 x 14 inches)	
Weight	9.5 kg (21 lbs)	
Input/Output	Serial Communication RS-232	
Bottle Operation	Purge Volume	15 to 30 mL programmable
	Cartridge	CO ₂ , replaceable, rechargeable
	Operating Capacity	60 samples per cartridge (120 mL sample bottle)
	Shop Air	60 to 110 psi (4.1 to 7.6 bar) clean, dry
Online Operation	Fluid Pressure	40 to 6000 psi (2.75 to 413.7 bar)
	Purge Volume	15 to 999 mL programmable
Power	DC Input	+24 VDC, 2A
	AC/Battery Adapter	Universal 100 to 240 VAC, 50 to 60 Hz, 60 W
	Rechargeable Battery	Nickel-Metal Hydride
	Operating Time	100 samples or 4 hours continuous
	Recharge Time	2.5 hours
Environment	Ambient Temperature	0 to 50°C (32 to 122°F); 20 to 85% relative humidity, non-condensing
	Storage	-40 to 70°C (-40 to 158°F), up to 98% relative humidity, non-condensing
Accessories Included	Carrying Case, High Pressure Hose Adapter, CO ₂ Bottles, Hand Pump, Sample Bottles, PODSControl Software	
Optional Accessories	Ultrasonic Bath Additional Sample Bottles Additional CO ₂ Bottles	

CE CLASS 1 LASER PRODUCT
Contact manufacturer for complete compliance details

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At Hach, it's about learning from our customers and providing the right answers.

Keep it pure.

Make it simple.

Be right.

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