HIAC PODS+
Portable Liquid Particle Counter

TECHNICAL SPECIFICATION

Number of Channels
9

Size Channel
ISO-MTD: 4, 6, 10, 14, 21, 25, 30, 50, and 70 μm
ACFTD: 5, 10, 15, 20, 25, 30, 40, 50, and 100 μm

Flow Rate
15, 30 and 50 mL/min fixed flow rates

Light Source
Class 3B laser, 775 to 810 nm, 5 mW maximum

Calibration Types Available
• ISO-MTD in 5606
• ISO-MTD in 5606 with ISO-11171:2010
• ISO-MTD in Glycol
• ACFTD in 5606

Counting Efficiency
JIS B9925: 1997

Coincidence Loss Error
5% coincidence loss at 40,000 particles/mL (per ISO-11171:2010)

Sample Volume
5 mL to 50 mL programmable

Fluid Temp Range
0° C and 90° C (32° F to 194° F) when ambient temperature is 25° C (77° F)

Viscosity Range
• 1 to 425 cSt with shop air pressure at 100 psig
• 1 to 150 cSt with internal pump

Wetted Materials
Stainless steel, chrome plated brass and stainless steel, sapphire, PEEK, PTFE, FFKM and LDPE PODS+ Moisture Sensor

Reporting Standards
• ISO 4406: 1999
• NAS 1638 (translated from ISO-MTD calibration when no ACFTD calibration is available)
• SAE AS4059
• NAVAIR 01-1A-17 (translated from ISO-MTD calibration when no ACFTD calibration is available)
• DEFSTAN 91-91
• GOST 17216-2001
• ASTM D7619-12
• User-specified
• Counts/mL
• Raw counts

Data Storage
3,000 records

Dimensions (D x W x H)
20.3 x 32.0 x 42.5 cm (8.0 x 12.62 x 16.75 in)

Weight
PODS+: 9.2 kg (20.1 lb)
PODS+ with moisture sensor: 9.6 kg (21.0 lb)

Input/Output
• Input: Ethernet 10/100M-Bit, client and host USB ports (USB 2.0), RS232 and I/O port for pump control and alarms
• Output: pdf, tsv over USB, custom modbus protocol over Ethernet and RS232

Bottle Operation
• Sample Delivery Method: Pneumatically pressurized sample chamber
• Internal Air Source: Internal compressor up to 40 psig (for up to 150 cSt viscosity liquids)
• External Air Source: Clean Dry Air (CDA) source up to 110 psig (required for fluids with viscosity above 150 cSt viscosity)
• Tare Volume: 5 mL to 50 mL in 1 mL increments

Online Operation
• Sample Delivery Method: Online pressure adaptor
• Fluid Pressure: 40 to 5000 psig
• Tare Volume: 5 mL to 999 mL in 1 mL increments
• Number of Samples: 0 to 500 programmable with 0 being continuous
• Filter Mode: Run until dirty or clean contamination level is reached with alarm triggers

Power
• Rechargeable Battery: Lithium-ion
• Operating Time: 6 hours of continuous sampling on a 3 minute interval, including printing with each sample and running 50 mL samples at 50 mL/min, 100 mL/min drain and with 5606
• Recharge Time: 4 hours
• DC Input: 24 VDC, 2.5 A maximum
• AC Adaptor: Universal 100–240 VAC, 50–60 Hz, 90 W

Environment
• Operating Temperature Range: 0° C to 50° C ambient temperature
• Operation on the external power supply (charging the battery) limited to 40° C
• Storage Temperature Range: -40° C to +70° C ambient temperature
• Relative Humidity: 20% to 95%, non-condensing
• Max Altitude: 3000 m (9842 ft)

Dynamic Range in Water
• 1.3 μm – 100 μm
• With this range the user can assign particle sizes to the nine available sizes.
• The minimum size increment between channels is 0.1 μm.

© 2016 Beckman Coulter, Inc. All rights reserved. Beckman Coulter, the stylized logo and the Beckman Coulter product and service names mentioned herein are trademarks or registered trademarks of Beckman Coulter, Inc. in the United States and other countries.

For Beckman Coulter’s worldwide office locations and phone numbers, please visit “Contact Us” at beckman.com

PART-211DS11.16