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icountBS - Bottle Sampler

The benchtop solution to fluid contamination
 bottle sampling



ENGINEERING YOUR SUCCESS.

The Complete Solution - Industrial Design Combined with State of the Art Technology

The icountBS - Bottle Sampler from Parker, with its innovative industrial design, has been developed for customers looking for state of the art technology, attention to detail and the compactness of a permanent laboratory particle analysis instrument.

Combine this with on-board, laser based, leading edge technology to bring to all industries a truly revolutionary Particle Counter. The innovative icountBS is a product from the next generation of Parker's fluid particle analysis and monitoring solutions.

The IBS features an easy to use interactive touch screen, environmentally controlled pressurized bottle chamber, an internal compressor pump, automated door locking mechanism, sample tube cleaning sleeve that minimizes cross contamination, and an internal printer.

The icountBS benefits from Parkers knowledge and experience of providing fluid analysis equipment to the market for over 15 years.

icountBS - Bottle Sampler Features & Benefits

- Customer programmable number of sample runs/sample bottle averaging and pre-test flush volumes from 10ml min. to 100ml max.
- Input via fluid resistant touch screen display.
- Repeatable and reproducible performance to ISO4406:1999, jAS4059E, and NAS1638 particle count distributions. Other calibration standards are included.
- On-board compressor and 'shop' air capable.
- Design concept allowing for portability. DC and rechargeable battery pack options built in.
- Sample tube self cleaning sleeve minimizing cross contamination.
- 500 test sample memory.
- Data download via USB jump drive or USB to USB included.
- Internal printer.





Home Screen



Sample ID Input



Number of Sample Runs



Sample Volume



Flush Volume



Start Test

Analyzing the Test Results

Once the automatic oil sample test has been completed, what next?

Solid contaminants in fluid power systems vary in size, shape, form and quantity. The most harmful contaminants are normally between 6 microns and 14 microns. The ISO code is the preferred method of reporting quantity of contaminants.

The ISO code number corresponds to contamination

levels relating to three sizes. The first scale number represents the number of particles that are equal to and greater than $4\mu\text{m}$ (c) per ml of fluid, the second number for particles that are equal to and greater than $6\mu\text{m}$ (c) per ml of fluid and the third number for particles that are equal to and greater than $14\mu\text{m}$ (c) per ml of fluid.

For example: An ISO code 20/18/14 indicates that there are between 5,000 - 10,000 particles that are equal to and greater than $4\mu\text{m}$ (c), between

1,300 - 2,500 particles that are equal to and greater than $6\mu\text{m}$ (c), and between 80 - 160 particles that are equal to and greater than $14\mu\text{m}$ (c).



icountBS Product Specification

Principle of Operation	Laser based light obscuration
Dimensions	H=20.9" x W=7.48" (8.27" Door) x D=16.1"
Weight	31 lb. (14kg)
Mechanical Composition	Stainless steel 316, plated mild steel and aluminum
Plastics Composition	Precision polyurethane RIM moldings and ABS plastic
Environmental Operating Temperature (Tested)	41°F to 140°F (+5°C to +60°C)
Operating RH Range	20 - 85% [Tested at 86°F (30°C), no condensation]
Storage Temperature	40°F to 194°F (-40°C to +90°C)
Storage RH Range	10 - 90% (Tested at 30°C, no condensation)
Channel Sizes	MTD - >4μ(c), >6μ(c), >14μ(c), >21μ(c), >38μ(c), >70μ(c), ACFTD - >2μ, >5μ, >15μ, >25μ, >50μ, >100μ
Analysis Range	ISO 7 to 21, NAS 0 to 12
Contamination Standards	MTD - ISO 4406:1999 & NAS 1638 ACFTD - ISO 4406:1987, ISO 4406:1991, NAS 1638, and jAS4059E For further contamination standards consult Parker
Calibration Standard	ISO MTD and ACFTD calibration to traceable ISO Standards. (Contact Parker for further details)
Fluid Management	Maximum single sample = 100ml, Minimum single sample = 10ml
Possible Test Configurations	User selectable from single test up to 5 tests per run (eg. 1 x 100ml up to 5 x 50ml per run)
Pre-Test Flush Volume	Minimum = 10ml, Maximum = 100ml
Viscosity Range	5 to 400 cSt
Fluid Compatibility	Mineral oils, petroleum and hydrocarbon based fluids. For all other fluids, consult factory.
Sample Bottle Size	No specific bottle required. Maximum size = 2.95" (Dia.) x 5.90" (H). Maximum volume = 250ml
Memory Storage	500 tests (capacity warning after 450 tests)
Output Display	Backlight 256 color STN transmissive
Output Display Resolution	320 x 3 (RGB) (H) x 240 (W) dots
Display Active Area	115 (H) x 86 (W) mm
Data Input	Via icon driven resistive touch screen
Printer	Thermal dot-line printing
Printer Paper	Ø50mm - (57mm x 25mm)
Test Certification	Calibration & Certificate of Conformity
Power Supply	DC output - 12V @ 6.60Amps, 80 watts max. AC input - 100 to 240V @ 1.2Amps (50 - 60 Hz)
Battery Power	2 hours (recommended to be fully charged every 3 months)
Battery Stand-By Time	1 month (then 1 hour of operation)
Battery Fuse	6.3 Amps (anti-surge)
Air Pressure Source	50 psi (3.5 bar) internal mini-compressor or 101 psi (7 bar) shop air



icountBS - Bottle Sampler Ordering Information

Part Number
IBS3100US
IBS3000FUS (fuel version)
IBS3000MUS (minilab version)

Accessories	Part Number	Included
250ml Sample Bottle (2/pk)	ACC6NW001	* (2 pks.)
Sample Bottle Pack (50)	ACC6NW002	
Vapour/Waste Bottle	ACC6NW003	*
Waste Bottle Folder	ACC6NW004	
Printer Paper Reel (x1)	ACC6NW005	*
Transport Case	P893865	*
1m Waste Tube (Clear)	ACC6NW009	*
1m Vapour Hose (Blue)	ACC6NW010	*
USB Memory Stick	ACC6NW011	*
icountBS CD Manual	ACC6NW012	*
Air Connector	P.893318	*

* These items included with IBS unit within a transportation case.