

# SWIFTSENTRY 1000

Fluid Cleanliness Monitor

[www.swiftfilters.com/SwiftSentry1000](http://www.swiftfilters.com/SwiftSentry1000)

The SwiftSentry 1000 fluid cleanliness monitor utilizes mesh blockage technology that provides more accurate and reliable fluid cleanliness analysis over light extinction monitors for non-homogenous fluids.



- Proven Mesh Blockage Technology
- Ideal for Dark Fluids
- Easy to Use
- Fast Accurate Results in Minutes
- Long Battery Life
- Rapid Accuracy with Repeatability
- Portable

## Designed For Accuracy in Low Pressure Applications

The SwiftSentry 1000 is able to accurately measure concentrations of smaller contamination particles (<10  $\mu\text{m}$ ) in a wide array of fluids including:

- Wet fluids
- Low level aerated fluids
- Water-based washing fluids
- Heavily contaminated oils
- Multi-phase hydraulic fluids
- Diesel fuels
- Water-based glycols
- Cutting-tool fluids
- Dark fluids

**Rapid Results in under 5 minutes!**

## Additional Capabilities

Temperature

Water Content RH%

Viscosity

(requires optional  
humidity sensor)

## Delivers Data Compatible With ISO Cleanliness Codes

Data is automatically provided within ISO fluid cleanliness code parameters required for cleanliness certification:

### ISO4406

3-part ISO 4406 cleanliness code results (4 $\mu\text{m}$ ; 6 $\mu\text{m}$ ; 14 $\mu\text{m}$ )

SAE AS 4059 table 1 (NAS 1638)

SAE AS 4059 table 2

GOST 17216-2001

## NORTH AMERICA SALES ONLY

### Standard Monitor:

SS-1000

An internal low power source is provided for battery charging and operation on AC power if preferred.

The Swift Sentry 1000 is supplied with a robust transit case.

### With Humidity Sensor:

SS-1000-H

### Optional Printer Kit:

SS-1000-Printer



## SPECIFICATIONS

Additional components for low pressure on-line sample monitoring are contained in the monitor.

There is enough internal battery power to complete at least 25 tests before recharging.

<b>Power Supply</b>	External Low Power Source: 48VDC (90-260 VAC) Internal 12 VDC Lithium-Ion rechargeable battery Battery life: Typically 25 samples
<b>Temperature Range</b>	(Dependent on fluid type): 5 °C to 80 °C (41 °F to 176 °F)
<b>Compatibility</b>	Water glycols, aqueous solutions. Petroleum and synthetic oils (hydraulic lubricating, dielectric, etc.), fuels, industrial phosphate esters.
<b>Seals</b>	Fluorocarbon
<b>Operating Viscosity</b>	1.5 to 450 cSt (30 to 2,200 SUS)
<b>Operating Pressure</b>	0 to 1 bar max
<b>Monitoring Range</b>	ISO 4406: <11/9/7 to 23/21/17 SAE AS 4059 Table 1: Class 1 to 12 (derived from NAS 1638) SAE AS 4059 Table 2: >4 µm 1A to 12A >6 µm 1B to 12B >14 µm 1C to 12C
<b>Humidity</b>	% RH: ±2% at 5 to 95% RH (SCM-H)
<b>Accuracy</b>	±1/2 ISO 4406 Code
<b>Communication Ports</b>	(2) USB: Download Results, Printer, WiFi  (1) USB: PLC Control  Ethernet (Remote Control)
<b>Hose Fitting</b>	M10 x 1
<b>Enclosure</b>	IP 65 (NEMA 4)
<b>Dimensions</b>	350 x 280 x 280 mm (14x 11 x 11 inches)
<b>Weight</b>	9 kg (20 lb)

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