

SWIFTSENTRY 1000

Fluid Cleanliness Monitor

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

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.

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

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