

## Sentinel Corrosion Monitor SCU

### Continuous monitoring of commercial heating systems

Commercial heating systems are prone to water quality issues, resulting in corrosion and the subsequent potential damage to boilers, heat exchangers and other expensive components. The Sentinel Corrosion Monitor, which can be specified and installed on new systems or retro-fitted on existing ones, will continuously monitor the extent of corrosion giving an early warning of system issues. When compared to other currently available technologies, the Sentinel Corrosion Monitor provides an accurate, customer accessible, technically and commercially proven solution.

- **Constant real-time monitoring and graphical representation on a PC dashboard**

Gives early warning of system issues before they escalate; thereby reducing large scale remediation costs.

- **Probe based monitor within the pipework flow**

Allows the health of the system to be continuously monitored for peace of mind or early intervention to reduce lifetime costs.

- **Multiple units can be located throughout larger buildings**

Allows the whole heating system to be monitored and so provides a comprehensive, whole-system solution.

- **Simple-to-use technology which can be incorporated into PPM routines**

Can be used by facility and maintenance managers or building owners to support planned preventative maintenance and will complement system operational reviews.



### The Sentinel System

Lifetime protection for heating and hot water systems using the best practice process of...



**CLEAN**  
WITH  
APPROPRIATE  
CLEANER



**PROTECT**  
WITH X100  
INHIBITOR



**MAINTAIN**  
WITH  
TEST KIT

## Operation and Mounting

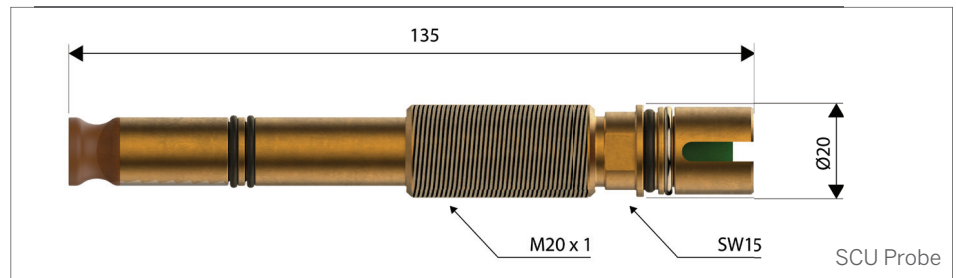
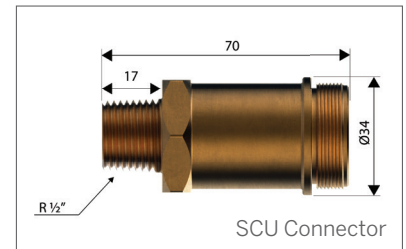
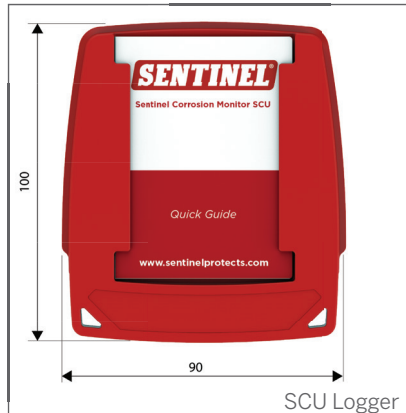
Mounted perpendicular to the pipe with the threaded connector, which places the metal tip of the probe in the water flow. The oxidation of this metal tip is representative of the uniform corrosion within the system. The data logger records the corrosion rate against time for trend analysis and alerts any deviation from set levels. The logged data can be downloaded and read with the Sentinel dashboard on a PC/laptop.

## Components and Dimensions

**Mains adaptor:** 75mm x 59mm x 6mm (power cord length 1.5 m)

**Carton packaging:** 235mm x 188mm x 70mm

**Total weight:** 815 g



## Technical Data

<b>Outputs, signals, alarm</b>	<b>Visual:</b>	Various LEDs for display of operating and alarm status.	
	<b>USB:</b>	Memory readout.	
	<b>Volt-free contact for:</b>	Building management system, remote surveillance, other signal transmitter (SMS module, audible alarm, flashing light) shutting down of the boiler.	
	<b>Alarm in case of:</b>	Corrosion rate too high (adjustable). Fault in the corrosion monitor. End of the service life of the probe.	
<b>Characteristics</b>	<b>Physical:</b>	Pressure range: 0 to 6 bar	
		Temperature range of system water: +5°C to +85°C	
		<b>IMPORTANT! Avoid condensation on probe by lagging if necessary.</b>	
		Storage: 0 to 35°C	
		SCU Probe: brass CW614N and PPS	
		SCU Logger: PC	
		Probe tip: Fe	
		SCU Connector: Brass CW614N	
		See also dimensions	
		<b>Electrical:</b>	Mains adaptor: CEE 7/16, 230 VAC, 50 Hz, 5VDC mini-USB
			Volt-free contact: Nominal 24 VDC/VAC, 100mA Max. 48V DC/VAC, 2 A, 60 W
			IP52
	Power Consumption: 6W		
Autonomy of the memory : 10+ years			
Data Storage: Every 7 hours			

The use of Sentinel water treatment is endorsed by the industry's major international manufacturing companies\*



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SentinelCPM