

# SKIDSENS

## Fouling Sensor

*by Neosens*



## Key Features

- Real-Time Monitoring
- Controller Triggered Alerts
- Confirmation of Treatment Results and Effectiveness
- Simple 4-20mA Output
- Reduced Operating Costs
- Extended Equipment Life

## Fouling Control

Neosens' Skidsens offers an innovative, cost effective sensor solution for monitoring the presence of fouling by biofilm or scale in cooling towers and other recirculated water applications.

Fouling in cooling systems is a multibillion dollar problem, reducing energy efficiency, increasing maintenance costs and creating health risks.

The Neosens approach is early, preventative, online monitoring with the signal going to a web capable monitor like the MegaTron. The sensor and controller continuously monitor the potential of fouling within the process enabling the optimization of treatment and confirmation of the treatment's effectiveness.

# Core Technology

The SKIDSENS Series sensor utilizes a patented thermal analysis technique for measuring changes in local thermal conductivity and heat transfer due to the very first stage of fouling. The sensors are based on MEMS (Micro-Electro-Mechanical Systems) technology, which offers the integration of electrochemical sensors and control electronics on a common silicon substrate.

## BUILD A MODEL

SKIDSENS - \_\_\_\_\_

### Mounting Options

(See layout diagram below)

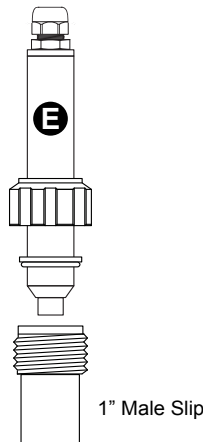
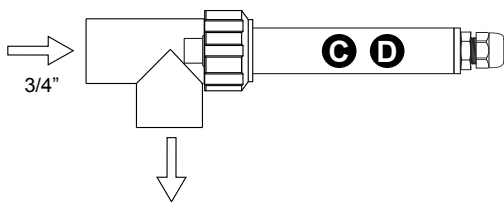
- A = No tee
- C = 3/4" quick release PVC 90 (gray)
- D = 3/4" quick release PVC 90 (clear)
- E = 1" male slip PVC quick release fitting

### Power Supply

- 1 = No power supply
- 4 = External 100-240 VAC to 24 VDC power supply (with USA cord)
- 5 = External 100-240 VAC to 24 VDC power supply (no cord)

### Isolation

- L = Isolation modual for 4-20 output



# Specifications

## Electrical:

- Input: 24 VDC @ 50mA
- Output: 4-20mA (250 Ω) max load

## Environment:

- Ambient temperature - 41 to 122°F (5-50°C)
- Process water temp - 32 to 140°F (0-60°C)
- Relative humidity - 0 to 90%
- Pressure - 80 PSI (5.51 bar) max
- Flow - 3.5 GPM (13.24 LPM)

**Fouling Monitoring:** 0-100% fouled  
100% fouled approximately

**Accuracy:** 1% of Full scale

**Material:** PVC & 316L SS

**Sensor Length:** 7.5" (19.05 cm)

# Installation Requirements

- SKIDSENS sensors have been designed for easy installation in recirculating water loops with a minimum flow rate of 3.5 GPM.
- The 4-20mA output is a differential output referenced to the +24V supplied power and works best with isolated input sensing devices.
- Power supply converter housing dimensions:
  - W 7.5" (19.05 cm)
  - H 7.5" (19.05 cm)
  - D 5.875" (14.923 cm)

# Controller Compatibility

The SKIDSENS sensor can connect directly into a MegaTron or MegaTron SS controller with the 4-20mA input card option. Historical graphs, real time readings and email alarm notifications can be done when the controller is connected to the internet and the WebAdvantage.



Get the Advantage

