



NEW



The sensing solution, the cooling industry has been waiting for

Monitors not only flow, but also the cooling effect AND temperature of the coolant



The flow-captor CoolGuard utilizes the weber pioneered calorimetric principle and the unique "therm-o-sense" circuitry

that monitors the cooling effect and temperature of the cooling media instead of just the flow.

When the cooling power of your system goes down, the temperature goes up, or flow is lost...CoolGuard comes into action...you can depend on it!

CoolGuard is especially designed, for all types of cooling systems, as a reliable alternative to failure prone mechanical flow switches.

Make sure, it's a captor

Evolution of the CoolGuard

Every Cooling System relies on a consistent flow of coolant to control the temperature of a process.

The cooling effect of the medium is dependant upon the flow rate and the medium temperature. Most cooling schemes employ a simple mechanical flow switch to ensure that a minimum flow of coolant is occurring and a temperature monitor to alarm if the process overheats.

Typical Cooling System Problems

The problems with mechanical flow switches are their inherent moving parts, which are subject to wear and sticking. The typical vane type switch will always fail in the worst way...open, which will indicate that flow is occurring even when it is not. The mechanical flow switch also fails to take into account another important aspect of the cooling process...

If the coolant temperature increases, a higher flow rate is required to maintain the same process temperature. Accordingly, a higher "flow setpoint alarm" is required. Conversely, if the coolant temperature decreases, a lower flow rate is needed to maintain the process temperature and a lower "flow setpoint alarm" is needed.

The mechanical flow switch can not adjust to this change and may not alarm in time at higher medium temperatures and may alarm too soon at lower medium temperatures. In addition, mechanical switches do not monitor the process temperature for over-temperature conditions.

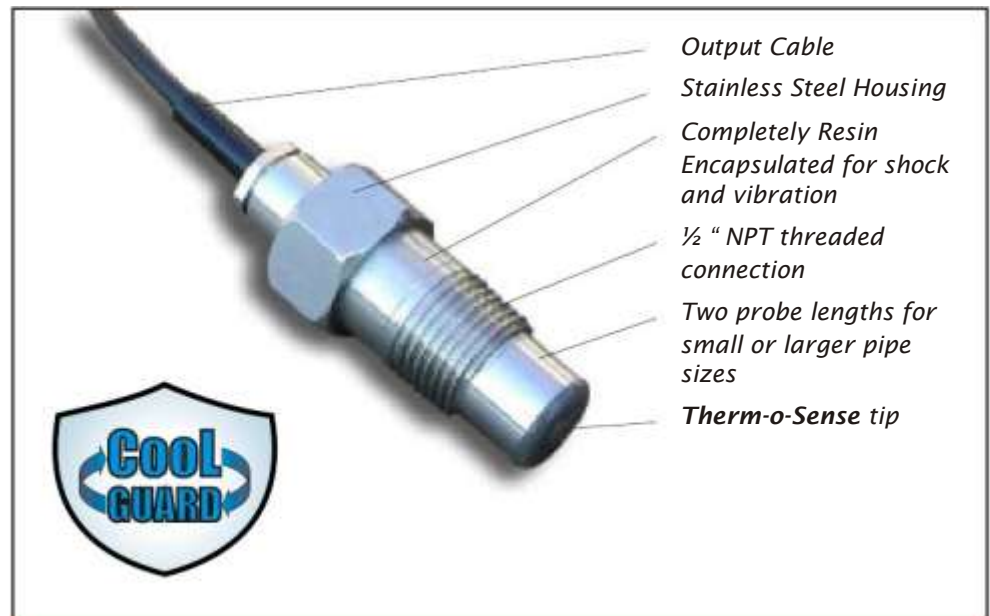
Now the CoolGuard flow-captor, with its unique "therm-o-sense" circuitry, has solved both of these shortcomings.

The CoolGuard continually samples the temperature of the coolant and adjusts the low flow setpoint automatically, providing a solid state switch should the coolant flow rate fall below the setpoint value.

In addition, the CoolGuard will provide an alarm output should the coolant temperature rise above acceptable levels. You have **Double Protection** with the CoolGuard.

CoolGuard Features:

- Compact electronic unit with no moving parts
- No adjustment or calibration needed
- Maintenance free
- Fail Safe Normally Open switch
- Economical Protection even for the most critical cooling systems
- Designed with the OEM in mind



- Output Cable
- Stainless Steel Housing
- Completely Resin Encapsulated for shock and vibration
- 1/2 " NPT threaded connection
- Two probe lengths for small or larger pipe sizes
- Therm-o-Sense tip

To get more information about the new CoolGuard flow-captor, please call our Applications Hotline **1-888 520 6691**

***Depending on the pipe size, sensor immersion depth & orientation, large deviations from above listed ranges occur.

Note that not all products are suitable for all applications. Various conditions may effect product performance. If in doubt, contact factory for details.

The captor group



weber
Sensors Inc

For over 40 years weber Sensors has been a leader in sensor innovation worldwide. From these activities the captor group evolved, providing engineered solutions for industrial automation and factory floor communication throughout the world.

The captor group is a unification of companies from a variety of industries and technologies addressing the marketplace under the captor umbrella. The members of the captor group are sharing resources and Know How and - most important - share and benefit from the market recognition of the trade mark "captor",

that stands for products and services you can rely on. Members of the captor group are world-wide. For more information, please write to info@captor.com.

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