

What does Cool-Gauge do?

- ✔ Cool-Gauge is an intelligent approach to monitoring levels of Heat Transfer Fluids (HTFs) in your cooling system. It monitors constantly showing reserves of the typical HTFs such as MPG, MEG and ALV, ALV+, Brix & Temperature.
- ✔ Cool-Gauge enables automatic dosage of your HTF against specific set points which ensures accurate control of your HTF reserve is maintained, at all times.
- ✔ Cool-Gauge can output the data it monitors to external devices such as a laptop, smart phone, chiller display or BMS and it does this via RS485 and Wi-Fi.
- ✔ Cool-Gauge is also Bluetooth enabled for localised diagnostic data collection via a phone app.

Why Use Cool-Gauge?

- ▶ Provides accurate and constant HTF monitoring & control.
- ▶ Data output to operators in real-time or download.
- ▶ Can be alarmed and give a visual signal (flashing light) at the point of use alerting operators e.g., low HTF fluid in the dosage tank
- ▶ Automatically doses HTF fluids to the system against setpoints to maintain accurate reserves – not too high, and not too low for peak system efficiency.
- ▶ Can help to minimise energy consumption by maintaining optimum viscosity of HTF within the system – which reduces pumping costs.
- ▶ Maintains in-built inhibitor reserves at the correct level to help prevent corrosion and scale build up.

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What are the advantages of Cool-Gauge?

- ▶ Accurate System Control and management.
- ▶ Reduction in operator error.
- ▶ Scale control*.
- ▶ Corrosion control*.
- ▶ Superb data provision.
- ▶ If used with lower viscosity HTFs exact viscosity control is provided, promoting energy economies & lower pumping costs.
- ▶ Low maintenance unit.
- ▶ Calibrated for all common HTFs, Brix & Temperature which are easily selected via the OLED display.
- ▶ Protects against pipe bursts through freezing as a result of low HTF levels.
- ▶ Can be integrated with standard chiller output for remote or standalone monitoring.

*If scale/corrosion inhibitors are present in the HTF used.

General Summary

Accurate temperature control in recirculating cooling systems is often critical. Cooling systems operating at lower temperature levels use Heat Transfer Fluids (HTFs such as specialised glycols) to protect them from freezing so it is vital that correct HTF levels are maintained. Fluid losses from the cooling system, such as tool head changes, can dilute the recommended reserves which can reduce both anti-freeze protection and the level of scale/corrosion inhibitors usually built in to the HTF formulation. This can render systems vulnerable to serious operational problems. Current monitoring practice is to manually take a sample and measure the level of HTF concentration using a hand-held refractometer. Based on the result obtained, a shot dose of HTF is then made and, after adequate recirculation, it is measured again and, if necessary, re-dosed until a sufficient reserve is obtained. This procedure can be infrequent, overlooked or potentially over-dosed as it relies on accurate and timely operator intervention. In this case, Cool-Gauge addresses a clear manufacturing need as operators strive for ever greater efficiency alongside increased system protection. Cool-Gauge makes Glycol dosed systems easier to control and allows for more accurate dosage whilst also providing superb analytical data to demonstrate that the system is performing to peak operating conditions.