

Bob Harris (Exergen Industrial)

Subject: Exergen's role in Valentine's Day, the Daytona 500, and the Winter Olympics



What do Valentine's Day, The Daytona 500, and The Winter Olympics all have in common?



Dear _____,

The answer is all three rely on Exergen Corporations accurate infrared thermocouples to make sure temperature in the manufacturing process, in high performance automobiles, and on the ice rink are just right.

In Vancouver, BC Canada the Winter Olympics will begin. Exergen IRT/c's have been used to measure ice temperature as temperature control is important for the various events performed on ice. Did you know that the ice has to be controlled to certain temperatures depending on the event? For example speed skating requires a colder service than figure skating.

In Daytona, FL USA the NASCAR season kicks off. Many racers use IRT/c's to measure tire temperature to tune the suspension of their vehicle and the tire temperature also affects its adhesion to the track. Brake rotors and torque converters are also measured.

All over the world we celebrate Valentine's Day. And who isn't going to give their honey a box of chocolates? In processing of

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chocolate, roasting the cocoa bean is a critical step, with time and temperature the most important elements. IRt/c's are used in the mixing process.

So whether you are a race fan, winter sports fan, or chocolate fan. You should have an appreciation for what goes on behind the scenes to bring you your delights!

Sincerely,

Bob Harris
Exergen Corporation

Chocolate Mixing Temperature



Measuring the temperature of *chocolate while mixing is difficult at best with conventional* contact thermocouple probes, due to breakage and possible contamination of the food. The IRt/c solves the problem by monitoring temperature without contact, completely eliminating breakage and possible contamination. Wired into a temperature controller, the information can be used to control mixing speed motors to maintain proper chocolate temperature. [Check out Tech Note 43](#) which is the same technique used to measure dough temperature. And read all about [chocolate processing here](#)

Measuring temperature to improve racing performance



Tire temperature is of critical concern in automotive racing for two reasons: the tire temperature directly affects its adhesion and its wear characteristics, and tire temperature patterns provide valuable information on the set up and performance of the suspension. Read [Tech Note 13](#) and a [success story on a drag race car here](#). If you are looking for a systems integrator with experience in temperature control on race cars [Competition Data Systems packages IRt/c's with their data systems.](#)

Measuring ice and snow temperature in various sporting events



The most important part of the ice in any sporting event is the surface in which is skated on. Infrared temperature sensors are used to measure actual ice surface temperature. The temperature measured allows for control of the refrigeration system so that the ice is kept within +/- 1F of the desired temperature for that ice activity. Fluctuating heat loads (like the skaters) effect the ice surface. The IR sensor detects the heat loads immediately as they occur and allow the controls to respond faster to changing heat loads. For more check out the experts in that field at: [Energy Ice](#).

We are also actively measuring snow temperature to detect avalanches in Switzerland. Snow temperature is important in bobsledding, snowboarding, and skiing events. See: [ALPINE NATURAL HAZARDS AVALANCHE AND PERMAFROST DEVELOPMENT & RESEARCH MEASURING + WARNING SYSTEMS](#)

Thank you for taking the time to read our newsletter. I hope that there was some useful information on there for you and that your team brings home the gold or takes a victory lap. And most importantly you get to spend time with the one you love this Valentine's Day!

Sincerely,

Bob Harris
Exergen Corporation

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