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Exergen Global's Reflective Cone Only Device to Prevent Temperature Errors Caused by Ambient Radiation and Emissivity

Custom-Designed Cone Works With Exergen Non-Contact IRt/c Sensors, Ensures High-Quality Processing for Industrial Applications

WATERTOWN, MA and ZIJTAART, THE NETHERLANDS--(Marketwired - Feb 26, 2015) - Today, [Exergen Global](#) introduced its Reflective Cone, a custom-designed tool that works with the company's IRt/c infrared sensors to provide the industry's most accurate surface temperature readings, ensuring high-quality processing for a wide range of industrial applications. The Cone, the only device of its kind on the market today, is ideally suited for semiconductor, printing, plastics and other production processes in which high ambient radiation and reflection can prevent accurate surface temperature measurement.

Many industrial applications require very accurate control of the production surface (e.g. the drum, blanket, silicon wafer or other) temperature to ensure high quality processing. Yet, during production, the emissivity of the surface -- its power to emit heat relative to (ambient) radiation it reflects -- can vary considerably due to substrate properties, surrounding radiation, and ambient condition changes.

Most conventional IR thermometry devices do not account for those frequent and sometimes significant changes in surface emissivity, resulting in less accurate temperature readings. Exergen's Cone overcomes this problem because its custom-fitted conical design prevents ambient radiation from entering the surface being measured, and reflects emitted radiation and directs it to the sensor detector. By decreasing ambient reflections and emissivity variations, the Cone reduces temperature measurement errors by about a factor of ten.

"Our customers frequently encounter challenges related to temperature control after they have designed sophisticated equipment specific to their production processes. The issues may be inherent in the materials used in production, the process itself, or another issue entirely -- it differs in nearly every instance," said Dr. Francesco Pompei, Founder and CEO of Exergen Corp. "We work closely with our customers' engineering teams, examining every step of the manufacturing process to understand where thermometry may come into play. We identify the issue and then -- in a combined effort -- custom-design solutions to address the specific needs of the equipment, the application and the environment."

About the Exergen IRt/c Sensor

Exergen's IRt/c non-contact infrared temperature sensors with the Cone are the only IR sensors that can be certified with NIST traceable accuracy on real surfaces of unknown emissivity. The most reliable non- contact temperature sensor available today, the IRt/c contains no active electronics, providing unparalleled accuracy, with Mean Time Between Failure reports of > 1,000 years.

About Exergen Corporation and Exergen Global

Exergen Corporation, the global leader in industrial and medical non-invasive temperature technology, provides non-invasive temperature measurement devices providing lower cost, higher accuracy, less invasiveness, and greater reliability than ever previously possible. Exergen is well known for its award winning temporal artery thermometer in the healthcare and consumer market. The company was founded by Harvard-research scientist Dr. Francesco Pompei who holds over 70 patents. Exergen Corporation is based in Watertown, Massachusetts, U.S.

Exergen Global is the worldwide solutions provider of Exergen Corporation industrial non- contact

infrared temperature sensor solutions. Exergen uses Sensoranics™, an unique process of driving integrated cooperation between mechanical engineering teams, latest infrared temperature sensor innovations and last but not least, in depth understanding and applying this combined knowledge in thermal processes.

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