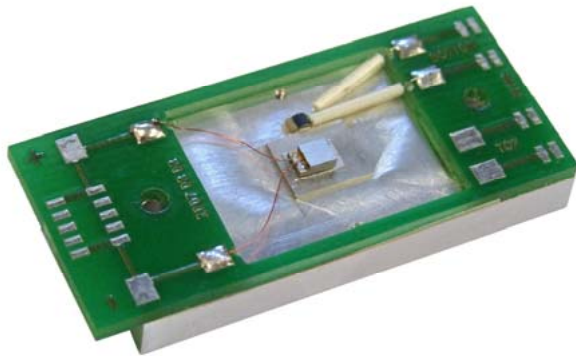


September 30th 2007

Sustainable power from excess heat

Micropelt, Freiburg, Germany, based specialist in thin-film thermoelectrics announces the immediate availability of their new thermal energy harvester eval kit 'TE-Power-Plus'. From moderately warm surfaces, available everywhere in industrial environments, the harvesting



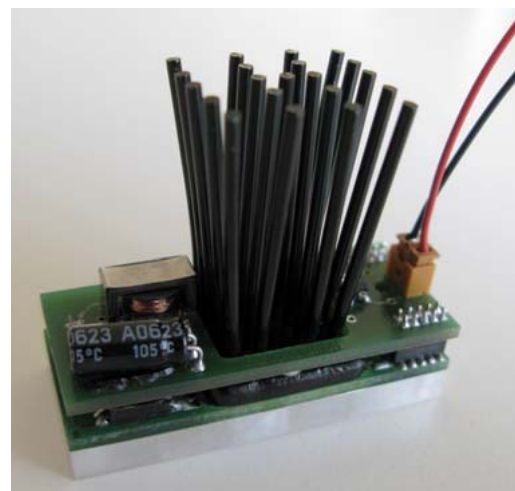
Micropelt Thermogenerator
MPG-D602 on FR4

module generates adjustable out-put Voltages between 1.2 and five Volts. While 10 to 20 °C temperature difference between e.g. a machine body and ambient air provide a few hundred micro-Amps. Higher differences and specialized heat sinking quickly translate into several milli-Amps.

The harvested energy may be used either for charging a battery or for directly supplying to a low-power electronic device. "We specifically target the industrial wireless sensor market" said Micropelts CEO, Fritz Volkert. "There is huge demand for tight condition and process

monitoring everywhere. But the maintenance cost for battery exchange often limits the case as does the installation cost of conventional wired approaches."

The harvester's core is a Micropelt thermo-generator, which is combined with a specifically designed DC/DC converter to ensure a constant voltage output across the wide operating temperature range. The compact harvester setup is designed for integration into wireless sensors and other self-sustained wireless electronics, which operate on or near heat sources. Burkhard Habbe, VP Business Development, expects the market to develop in two directions: "We offer our customers to co-design 'Thermal Power Packs', bundling our harvester technology with a rechargeable storage big enough to support a safe number of duty cycles of a given type of wireless device. As long as the energy balance is positive this 'thermal battery' will enjoy unlimited life. The next generation device, optimized for ultra-low power operation has a fully



Thermal Energy Harvester
TE-Power-Plus

Evaluation Kit with DC booster circuitry
for adjustable voltage cutout
1.25 V – 5 V

integrated thermal power source based on one or multiple Micropelt generators similar to our new TE-Power-Plus kit." Micropelt's experienced support team is ready to help customers designing their sustainable power supply for both installed systems and new self-sustaining devices.

We look forward to inspiring discussions at the booth. Please note Micropelt presentation at Wednesday, November 27th from 11:30 – 12:00 a.m. at Speaker's Corner Hall 4, Stand 4-520 wireless in automation.

About Micropelt

Micropelt GmbH is a venture capital-funded technology company founded in early 2006 as a result of a research cooperation between German chipmaker Infineon Technologies and the Fraunhofer Institute for Physical Measurement Techniques in Freiburg, Germany. Micropelt develops and markets miniaturized thermoelectric (TE) coolers and generators based on a scalable silicon MEMS (Micro Electro-Mechanical Systems) platform technology. Compared to conventional thermoelectric coolers, Micropelt's unique and patented technology has smaller component sizes, 10 times higher cooling or heating power densities, and economies of scale close to those found in chip-making industries.

Besides replacing small conventional TE coolers, Micropelt products can be used to create new and improved technologies in life science, wireless, laser, photonic, sensor, electronic, and other markets where microelectronics cooling or heating is needed. For more information contact: Micropelt at +49 (0) 761 156 337 0, info@micropelt.com, or visit our website at www.micropelt.com.

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