High Temperature Recording

- HiTemp150

Application Summary

Several industries require the use of high temperature data loggers for quality assurance, validation, thermal mapping, thermodynamics testing, and product development. Data loggers with extended temperature ranges are often integral components in the data acquisition process. Applications include:

- Dishwasher Testing
- Autoclave Verification
- Pasteurization and Sterilization
- Medical and Pharmaceutical
- Food Processing and Preparation
- HACCP Programs
- Harsh Environment Monitoring
- Environmental Studies

Potential Solutions

MadgeTech's HiTemp150 has a small form-factor of 1.1" x 1.75" dia. (28mm x 45mm dia.) with a probe dimension of 2.0" x 3/16" dia. (51mm x 5mm dia.). It is a low-profile, rugged, submersible data logger that hosts a 2" rigid external probe for fast response time. MadgeTech also offers custom probe lengths up to 8" (in.). The HiTemp150 has a food grade 316 stainless steel enclosure and is corrosion resistant. The HiTemp150 records accurate temperature readings along a -40°C to 150°C (-104°F to 302°F) range. This makes it an ideal solution for applications requiring harsh environments. The HiTemp150 can also operate in environments from 0-100% relative humidity (%RH). Using a 100 Ohm Platinum RTD temperature sensor with a resolution of 0.05°C, and a calibrated accuracy of ±0.5°C, the HiTemp150 is a serious competitor in high temperature, high accuracy applications.

Other significant features include a memory capacity of 32,767 readings, a typical battery life of 1 year, and a reading rate ranging from 2 seconds to 12 hours. The HiTemp150 can also be configured for an immediate or delayed start. The HiTemp150 also has a memory wrap capability which is enabled through the MadgeTech software. The software can be downloaded from the MadgeTech website. The memory wrap feature is good for long-term failure capturing, as it keeps overwriting the oldest data. This is useful if the user only wants to review data if something goes wrong. These qualities make the HiTemp150 perfect for use in many industrial and commercial environments.

If you have any further questions about your application, please contact
MadgeTech Customer Support at 603.456.2011, or via e-mail: support@madgetech.com