

The Titan S8 'A Clear Choice' for Specialty Metal Manufacturer



BACKGROUND

Established in 1916, Engineered Materials Solutions produces highly engineered materials for clad metal, thermostatic bimetals, nickel, and nickel alloys for industries across the board. With manufacturing facilities in Massachusetts, Pennsylvania, and China, Engineered Materials Solutions provides customized solutions on a global market scale.

CHALLENGE

Engineered Materials Solutions needed a data logging solution to test its SigmaClad® battery connector material used in outdoor consumer products such as lawn mowers, hedge clippers, etc. However, not just any data logger would do, the application required a specific sampling rate and hardware configuration.

For more information on the Titan S8 or to find the right data logging solution for your needs:

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(603) 456-2011

SOLUTION

After an extensive search, Engineered Materials Solutions found what they were looking for in the MadgeTech **Titan S8**. The Titan S8 8-channel data acquisition system allows Engineered Materials Solutions to collect temperature and load data on commercial batteries.

To ensure quality and safety, a Type K thermocouple is connected to Channel 1 on the Titan S8 and mounted

to samples of the battery material, which are connected to a DC power supply. A shunt is then connected to Channel 2 on the Titan S8, as well as connected in series from the DC power supply to one side of the sample.

Once connected, a constant DC current is applied to the sample and both temperature and load are monitored by the Titan S8, until the sample reaches its steady state temperature. The data from the Titan S8 is then transferred to the PC to publish test results.

The Titan S8 is equipped with eight, fully programmable channels capable of simultaneously measuring and recording temperature, voltage, current, pulse, and frequency. With a full-color, 5-inch touchscreen interface, the Titan S8 is ideal for real-time monitoring and can store up to 5,000,000 readings.

To learn more about the benefits of implementing the Titan S8 into your unique application, call MadgeTech at (603) 456-2011 or email info@madgetech.com.

“After an extensive search, MadgeTech was a clear choice. It provided the sampling rate, hardware configuration, portability, & was reasonably priced.”

– Steve Vlaun, Equipment Engineer