



www.degreec.com

Thermal controllers represent the absolute core of DegreeC expertise. For more than a decade, we have designed many hundreds of thermal controllers, and our team is fast and sure at customizing controllers/monitors for a wide variety of thermal circumstances.

Our PRONTOflow series of off-the-shelf programmable controllers provides cost-effective fan control for thermal management applications. From mission-critical enclosures to medical equipment and from mobile equipment to large rack and room assemblies, we have delivered cool solutions to the market for the past 12 years.

Solving thermal challenges, reducing time to market, and creating a cost-effective manufacturing strategy are several reasons our clients choose us as their partner in thermal management. We pride ourselves on being the most innovative name in thermal and airflow management solutions.

– DegreeC

MIL-STD-461 fan controller

Not all military systems are conduction cooled; in fact, most of the systems used in defense applications are convection cooled and often use fans. But have you ever stood next to a cage with 10,000 RPM fans screaming at full throttle? The best solution is to manage those fans with an intelligent controller that can also serve in rugged applications. Such is the case with Degree Controls' rugged military fan controllers, which meet both MIL-STD-461 for EMI/EMC and MIL-STD-810F for environmental constraints.

The family of products utilizes microcontroller designs and DegreeC software to monitor system temperatures and adjust fan speed(s) accordingly. Programmable alarm thresholds can be set, along with speed curves that more precisely adjust temperatures to minimize thermal shock or deal with specialized ambient conditions. But beyond just a robust feature set, what sets DegreeC's products apart is the company itself: a Cage Code (when was the last time you read that term?), ITAR registered, and rigorous test methodologies including HASS, HALT, ESS, MTBF, and all the "ilities" you'd expect from a MIL-SPEC supplier. The company also provides specialized heat-sink designs, as well as thermal and airflow sensors.

Model: PRONTOflow Rugged Fan Controllers

Published in: *Military Embedded Systems* July/August 2008



RSC# 37434