RACO Actuator Panel Heater

- Onboard Control System
- Ready to Go
- Operational down to -40ºF
- Heated Enclosure
- Insulated Panel Liner
- NEMA 4x

ACTUATOR PANEL HEATER

Introduction

In extremely cold temperatures, down to -40°F, and/or high humid environments, heating of the actuator control panel may be required. It will guarantee the functionality of the electrical and electronic components and it will avoid corrosion on electrical termination connections due to the formation of water condensate. The below described solution provides an easy and inexpensive way to heat and insulate the control panel and its components.

Electrical Design

For mobile and dedicated applications, the actuator electrical control equipment is mounted directly on the actuator. Only supply power has to be provided to the power plug to make the actuator ready and operational. No interconnecting wiring is required. Limit switches, overloads, thrust control are preset and part of the pre-wired control system. The control panel components may include:
UL508 rated branch circuit breakers, reversing motor starter and/or VFD control equipment, thrust overload protection devices, control relays, PLC and logic devices, position control and limit switch sensors, etc...
To maintain operational temperature conditions for the required components inside the enclosure, an electrical fan-assisted thermostat-controlled panel heater is used. In addition, the inside walls of the enclosure are insulated with a high R value Insulfrax paper liner. This drastically decreases the heat transfer to the outside of the stainless steel panel and provides a more uniform temperature distribution of the components.

Heated Control Panel

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