

Description

Over Temperature Control for plant protection

High temperature safety controller designed to switch power supply off to heater in the event of low liquid level.

This controller is designed to prevent catastrophic damage to plant and equipment. Utilises a standard Braude sensor held in place with an OTP holder enabling accurate sensing of high element temperature. This is linked to a Thermaster OTP controller with a single fixed set point to turn off the heater.

The probe may be retrofitted to an existing Polaris Popular heater.

Key features

- Most Braude Polaris electric heaters
- Process areas where overheating is a concern
- Ultimate prevention of overheating
- Protection of plant and equipment
- Can be retrofitted to existing heater installations



Thermaster TS probe

Used By

- Steel Strip Manufacturers
- Wire & Tube Manufacturers
- Metal Finishers
- Chemical Plants
- Galvanising Industry
- Aerospace Industry
- Chemical Millers
- Glass Producers

POLARIS HEATERS ARE INTRINSICALLY SAFE

BRAUDE Products will not corrode

FLAMMABILITY OF MATERIALS

The materials used in construction of the POLARIS are classified as follows:

TEFLON FEP/PFA - These materials are to all intents and purposes non-flammable and will only burn in a pure oxygen atmosphere.

PVDF is classified by UL Laboratories as VO self-extinguishing.

ABNORMAL OPERATIONS TEST AND HAZARD PROTECTION

Compliance with the Principal objectives of safety has been assured by compliance with the following European and British standard: ~

EN60519-1:2003, EN60519-2:2006, EN60335-1:2002/A2:2006 and EN60335-2-73:2003/A1:2006

The heater tested was subjected to an abnormal operation test as required by the standard, which states:~

“Appliances shall be constructed so that as a result of abnormal or careless operation, the risk of fire, mechanical damage impairing safety or protection against electric shock is obviated as is practicable. During the tests the appliance shall not emit flames, molten metal or poisonous or ignitable gas in hazardous amounts.”

Braude have also carried out their own series of tests to destruction on heaters suspended in air and are satisfied that no risk exist.

CORRECT INSTALLATION

Please note that Braude installation instructions require all electric heaters to be properly installed with earth leakage circuit breakers (RCDs), which should be checked regularly for correct operation. Braude also recommend that all tanks should be fitted with level control to switch heaters off in the event of low liquid level and that proper maintenance and checking of these systems is carried out on a regular basis.

Proper installation according to the instructions will allow the heaters to be shut down rapidly in the event of adverse operating conditions, maintaining the safety of the installation.

SAFETY CONTROLLERS FOR POLARIS HEATERS

Thermaster OTP - Over Temperature Protection integral to the heater

Thermaster OTF - Thermal Fuse integral to the heater

HPD Hazard Protection device - low level cut off integral to the Polaris heaters