Designed For Reliability...

TBH

RAINGAUGE HEATER KIT

METEOROLOGY

General Description

The HyQuest Solutions Tipping Bucket Heater has been designed for use with the HyQuest Solutions Tipping Bucket Raingauges. The device is a thermostatically controlled heating element, that raises the temperature of the interior of the raingauge, funnel and catch to avoid the freezing of the gauge in cold climates with subsequent loss of precipitation records. When the ambient temperature drops below a preset value (+ 4°C), the heating elements are turned "ON" to keep the funnel temperature at the preset Setpoint temperature (+ 10°C) and are switched when ambient temperature reaches above (+ 5°C). The system will be de-activated when temperature drops below (-20 °C) or above (+5°C) nominal. This feature conserves the power supply.

Features

- Power Requirement AC
- Fully Automated Operation.
- Thermostatically Controlled Heating Element
- SDI-12 Interface

Specifications

- Ambient temperature range -40°C to +70°C (-40°F to +158°F)
- Heater operating parameters between -20°C to +5°C (-4°F to 41°F)
- Average power generated 35 watts (150 watts during initial minute warm up)
- Voltage requirements
  Main Power: 10VDC to 30VDC or 12VAC to 28VAC
  SDI-12 Power: 9.6VDC to 16VDC (SDI-12 standard)
- SDI-12 Interface: optically isolated ,1200 baud, 7 bits, even parity.
- Power generated and current requirements:
  - 12 VDC
  - 45 watts average (70 watts when heater is on)
  - 3.7 amps average (approx 65% duty cycle) (5.8 amps when the heater is on)

Model TB3 Rain Gauge with Heater Kit Model TBH Installed

N.B. Specifications are subject to change at any time without notice.

bsi. ISO 9001 Quality Management

Contact Us

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HYQUEST SOLUTIONS

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