

### THD Local & Radio Interface

#### Temperature, Humidity & Dew Point Sensor

Bermad Temperature and Humidity sensors provide frost and cooling protection solutions for sensitive crops. The sensors can be installed on a plant leaf or in an enclosure near the controller or in the field wired to Bermad's BIC2000 controller

#### Features and Benefits

- One sensor for ambient or leaf temperature and humidity.
- Frost Protection mechanism based on Dew point calculated from the measured Temperature Humidity.
- The grower defines the Critical Plant Temperature below which the crop may suffer frost damage.
- The BIC2000 automatically activates the frost protection program based on:
  - Critical Plant Temperature.
  - Calculated Dew Point.
  - Set threshold above Critical Plant Temperature.
- Same sensor used for starting frost and cooling cycles to protect the crop against too low or high temperatures.
- Cooling program starts automatically based on set threshold of temperature and humidity.
- If fertilizers applied at time of interruption for cooling, the controller will flush the pipes before starting the overhead cooling cycle.
- Powered by main controller.
- Automatic frost/cooling alarms sent by text message and/or through the BIC2000 PC software.



#### Specifications

- **Temperature:**
  - Range: -40°F to 240°F
  - Accuracy: +/- 0.3
- **Relative Humidity:**
  - Range: 0-100%
  - Accuracy: 0.05% RH
- Power: 12 Volt DC from BIC2000

