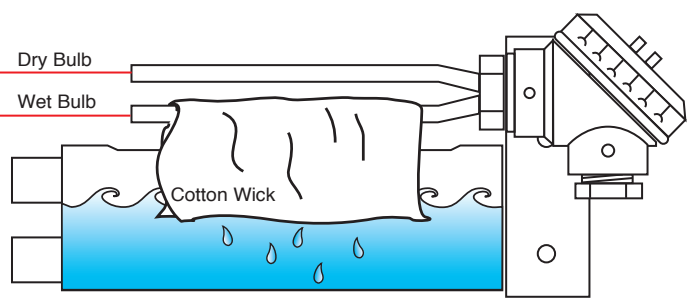
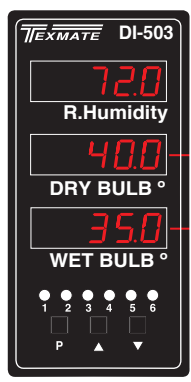


Wet and dry bulb humidity measurement, using two temperature sensor probes, is perhaps the most reliable method of accurately calculating humidity for low temperature applications in industry today. Both sensors are mounted close together, with one designated the dry bulb sensor and the other the wet bulb sensor. The wet bulb is kept wet using a moistened cotton wick.

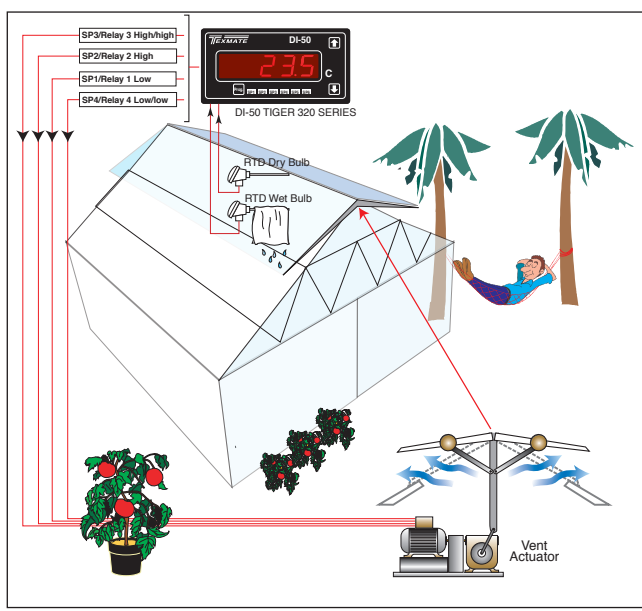
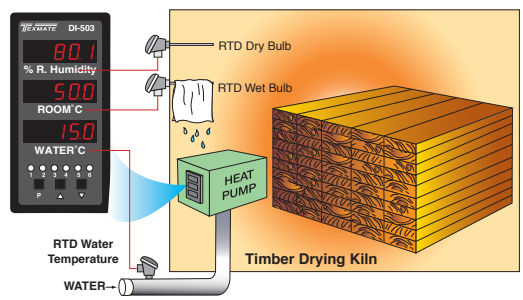
The wet bulb is cooled relative to the dry bulb by heat loss due to moisture evaporation from the wet bulb wick. The rate of evaporation is dependent on the ambient temperature and humidity.

From a polynomial formula entered into the controller, relative humidity (RH) is calculated from the dry and wet bulb temperatures.

A Tiger 320 Series controller, with a dual RTD or thermocouple input module and our relative humidity macro installed, allows you to directly display RH and temperature. This data can be used to control the temperature and humidity applications in horticulture, livestock, food processing, environmental, timber drying, and many other industries.



APPLICATION FUNCTIONS	
RH MACRO	★
RELAY OUTPUTS	⏏
TIMERS	⏰
ANALOG OUTPUTS	⚡
SERIAL OUTPUTS	⏏
REGISTER RESETS	↕



CALCULATIONS	⊕ ⊖ ⊗ ⊘
SEQUENCE CONTROLS	⏏

TEXT MESSAGING	⏏
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INPUTS	
DUAL TEMPERATURE	★

TEXMATE CONTROLLERS FOR THIS APPLICATION

Basic Order Codes	Comments	List Price From:
DI-50T-DR-PSI-IDT2	Humidity macro.	US\$ 245.00
DI-503T-DR-PSI-IDT2	Humidity macro. Display all parameters.	US\$ 330.00
	Macro required. Charges vary depending on application. Contact Texmate.	

Prices are for listed components only and do not include configuration charges if applicable. Sensors can be purchased from a supplier in your area. Submit your "Request for information" together with your contact details.

Texmate cannot assume responsibility for any application process described. No process patent licenses are implied. Texmate reserves the right to change processes, equipment, specifications, and prices without notice at any time.

TEMPERATURE T/C, RTD	★
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