

# Mist Guard

Frost Fighting  
Activates mist precisely on time



You could have saved your crops



- High-precision temperature and humidity sensors
- Frost point according to evaporative cooling
- Event logbook



# Ultimate stand-alone controller for anti-frost application

## Mist Guard frost fighting features

- Single station valve controller powered by 2 AA alkaline battery.
- Built-in precision temperature and humidity sensors
- Applies chill-factor (evaporative cooling) for frost point detection
- Logs temperature and humidity (min & max), and event logbook

## Hardware and software specifications

- Directly drives a latching solenoid (2 or 3 wires) including built-in auxiliary contact (1Amp 30VAC or DC)
- High-precision temperature sensor -50°C (-58°F) to +50°C (122°F),  $\pm 0.25^\circ\text{C}$  ( $\pm 0.45^\circ\text{F}$ )
- High-precision humidity sensor 0-100%,  $\pm 2\%$
- Logs min and max temperature and humidity levels over the last 24-hours
- 480-events logbook includes time and date stamping
- Displays Celsius, Fahrenheit, Relative Humidity and Dew Point readings

## Mist Guard - Chill Factor

- The chill factor provides effective compensation for evaporative cooling effect caused by low humidity during the frost season.
- Chill factor results - the Mist Guard will raise an alarm prior to reaching freezing point.

### Example of common setting in vineyards

Frost point in 100% =  $0.5^\circ\text{C}$

Frost point in 0% =  $0.5^\circ\text{C} + \text{Chill factor } (7.5^\circ\text{C}) = 8^\circ\text{C}$

