

Degree-Day and Chill-Hour Recorder

Works on site for you.

Our HarvestGuard is a compact recorder that accurately measures and displays degree-days, chill hours, frost degree-hours, and mildew index. It uses the standard methods for calculating degree-days required by most current phenology models. It records yesterday's and today's min/max temperatures. It can be set to display in degrees F or C. It's simply the most powerful and versatile instrument available.

Track Multiple Events

HarvestGuard's 3 accumulators can be individually set to monitor degree-days, chilling hours, or frost degree-hours. Each can be started independently. The starting total, low and high thresholds are all user defined and easily entered using the simple 2-button keypad.

Measure Mildew Index

The HarvestGuard Model MD also tracks the Powdery Mildew Index. The current mildew index is displayed along with the previous 7 days history! It's indispensable for vineyard managers.

Effortless Operation

In the field simply press your HarvestGuard's "next" button to read:

- ✓ yesterday's min/max
- ✓ today's min/max
- ✓ current temperature
- ✓ accumulated degree-days
- ✓ accumulated chill-hours
- ✓ mildew index & history
- ✓ battery condition

Assess Chill & Frost Danger

Measure the season's total chill-hours for dormancy. Monitor the effectiveness of frost protection measures. During a frost, monitor the degree-hours accumulated while the temperature was below your critical limit.

Works without a computer

Our HarvestGuards are completely stand-alone instruments. Two buttons do it all! You never have to worry about retrieving data from the field and loading it into your computer to see what's happening.

Quality assured

HarvestGuards are assembled in our California facilities to the highest quality standards. We proudly stand behind them and confidently offer a full 2 year warranty.

No Risk

Prove to yourself that a HarvestGuard is the perfectly affordable solution for your site-specific monitoring. Take advantage of our 30 day satisfaction guarantee. If you're not completely satisfied for any reason, just return it for a complete refund. So, give us a call at (707) 961-1016 or drop by our Web site at <http://www.avatel.com>.

"Your Harvest-Guard is exactly what growers have been needing."



Specifications

Report: Yesterday's Min/Max Temperature
Today's Min/Max Temperature
Current Temperature
Degree-Day Accumulations
Chilling Hour Accumulations
Frost Degree Hours
Powdery Mildew Index
Battery Life Remaining

Display: 2 line x 8 character LCD

Range: 0 to +150 F, 0.1 deg. resolution
-17 to +65 C, 0.1 deg. resolution

Accuracy: +/- 1 degree F (+/- 0.6 C)

Setpoints

Chill: 25 to 50 deg. F (-3.9 to 10 C)

DD Low: 40 to 65 deg. F (4.4 to 18.3 C)

DD High: 80 to 124 deg. F (26.7 to 51.1 C)

Accumulators

Number: 3

Chill Hour & DD Capacity: 0 to 9999 Chill hours (deg. F)
0 to 7280 Chill hours (deg. C)

Frost DH Capacity: 0 to 999.9 Degree-days (deg. F)
0 to 728.0 Degree-days (deg. C)

DD Calculation Method: Daily Single-Sine (Model - SS)
Daily Average (Model -DA,-MD)
Hourly Histogram (Model -HH)

Mildew Index

Range: 0 to 100% risk index
Add: +20 when 6+ hours 70 to 85 F
Subtract: -10 if <6 Hrs, or >95 F.
History: displays previous 7 days

Clock Accuracy: +/- 5 seconds per day

Battery

Type: 9V Alkaline or U9VL lithium

Life: Alkaline: 9 months (typical)
Lithium: 2 years (typical)

Enclosure

Size: 4.2 x 2.4 x 0.9 inches

Models

HarvestGuard models differ in the way they calculate degree-days. Current models use single-sine (HG-SS), daily-average (HG-DA & -MD) and "hourly" (HG-HH) calculations. Refer to: *Degree-Days: The Calculation and Use of Heat Units in Pest Management*, available from the University of California. Contact the U.C. Division of Agriculture and Natural Resources, or an Avatel representative for a copy. Only the model HG-MD includes mildew index. Other HarvestGuard models may be available. We also offer temperature and humidity data loggers. Please contact us with your specific needs.

Options

Remote Sensor: All HarvestGuards are available with a remote sensor. This allows the sensor to be placed in a tree canopy, the soil, or permits the HarvestGuard to be located inside for ease of reading. The standard cable length is 15 feet. Greater lengths are available upon request.

Radiation Shield: Minimizes solar induced errors and protects your HarvestGuard from rain and sprays.

Your Avatel Representative:

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