

# Multi-Level Temperature Probe

The Multi-Level Probe (MLP) identifies and displays thermal stratification in tanks.

- ✓ Automatically start pump-overs and stirrers based on stratification
- ✓ Initiate pump-overs when the cap gets hot
- ✓ Modify pump-over frequency/duration based on visual and historical results
- ✓ Significant power savings - short term return on investment.

Use the MLP solely as a visualization tool in selected tanks to better understand what is happening inside. Alternatively, you may want VinWizard to act on readings for control of temperature, pumpovers and stirrers.

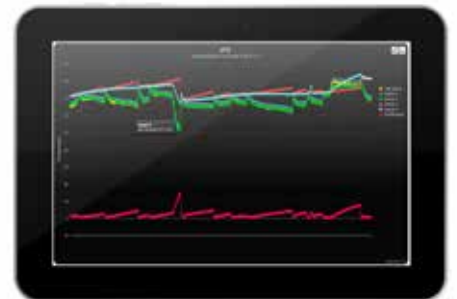
## Pumpovers:

Automate pump-overs based on cap temperature or when stratification in the tank is greater than a predetermined level

*Instant visualisation at your computer or on the move with the tablet*

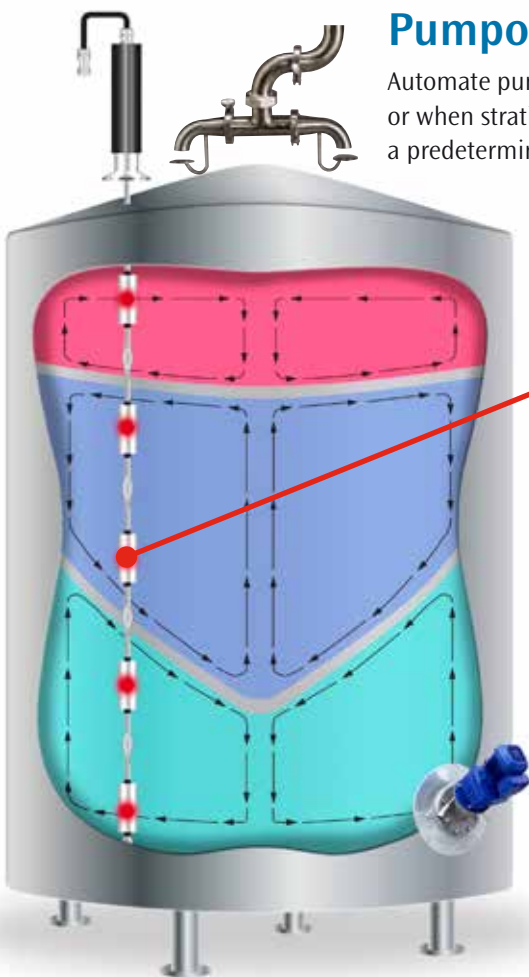


*Charts display each sensor reading over the duration of the ferment*



## Stirrers:

Automate if stratification is greater than predetermined levels



The MLP is configurable for all tank sizes. Multiple sensors are inserted inside a stainless tube made to fit your tank. Each probe can have between 5 to 30 temperature points.

The MLP easily integrates into existing PLC based systems or can be installed as a stand-alone solution.

The MLP can monitor up to 30 temperature points from the cap down. VinWizard displays readings in a way that helps answer key questions affecting wine quality and cost of production:

- What is the true impact of heating and cooling on wine in your tanks?
- Is the frequency and duration of your pumpovers achieving the desired results?

## Multiple temperature control point options:



The MLP on top of the tank.

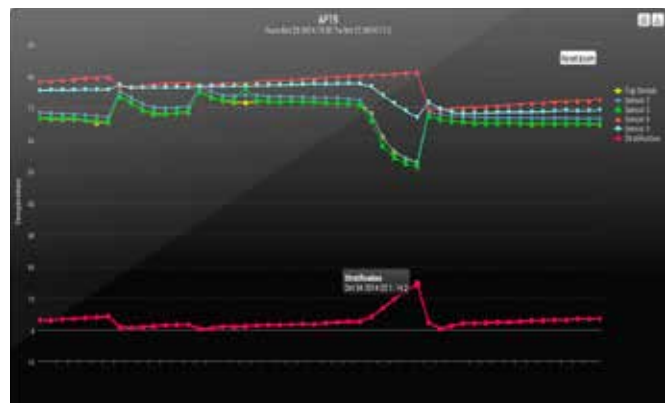


MLP sensors inside the tank.

- Select any sensor as the temperature control and alarm point
- Disable any sensor point that you do not want in stratification calculations
- Calculated difference between the highest and lowest temperature reading

## Thermal Chart Display:

Visualise thermal stratification of an entire ferment via a single color coded chart.



Analysis of MLP data has surprised winemakers and engineers. The MLP will challenge current thinking in regard to tank design and help refine winemaking practices.