

 **LIGHTNING MVP®**



**ONE INSTRUMENT  
MULTIPLE TESTS  
ONE REPORT**

**MVP**

**BIOCONTROL**

Results. Right now.

# MVP SYSTEM

LIGHTNING MVP is the first quality monitoring system that uses one instrument platform to collect, analyze, and report data from multiple quality indicators including ATP, conductivity, concentration, temperature, and pH. Furthermore, LIGHTNING MVP is able to analyze data from different indicators as an interrelated set to demonstrate cause and effect that may previously have been difficult to identify.

## ONE INSTRUMENT DOES IT ALL

The LIGHTNING MVP instrument is multi-functional, incorporating many state-of-the-art technologies and innovative features. It is simple to use, flexible, and highly accurate. MVP calibration capabilities comply with Good Manufacturing Practices (GMP) and HACCP program requirements.



One instrument measures common HACCP indicators such as ATP, conductivity, concentration, pH, and temperature

Dynamic Memory Allocation (DMA) stores up to 10,000 test results from any combination of measurements

User calibration of all measurement parameters to ensure GMP and HACCP compliance

Small size without compromises –innovative design incorporates advanced features in a handheld instrument

For ATP Testing:  
Unique design allows one hand, one step insertion of MVP sampling devices



Universal port to connect external MVP pH, conductivity, and temperature probes as well as battery charger and serial connection to a PC



Special keys such as "quick read" provide shortcuts to frequently used functions

Rugged and durable for use in even the most challenging operating environments

# MULTIPLE TESTS

MEASURE MULTIPLE HACCP AND QUALITY INDICATORS

## ATP

### MONITORING PLANT HYGIENE

ATP (adenosine triphosphate) is found in all cells and monitoring its levels on surfaces and in liquids is an ideal indicator of overall hygiene. Using highly advanced, proprietary technology the LIGHTNING MVP sampling devices detect ATP from food residue and microbial contamination with high accuracy and reproducibility. Results are available in seconds so corrective action can be taken, reducing the risk of contamination and the chance of compromised product shelf life.



MVP ATP Surface Sampling Device is activated in a single step

## CONCENTRATION

### ENSURING PROPER SANITATION

Sanitizing and cleaning chemicals are a vital and expensive part of any sanitation program. Mixing them inaccurately endangers food safety as well as your bottom line. The LIGHTNING MVP offers a highly accurate, reusable probe that measures solution concentration and reports it as a precise numeric value in parts-per-million. Results are automatically logged, establishing a solid audit trail. The increased accuracy provided by the LIGHTNING MVP Concentration Probe, versus commonly used strips and titration kits, allows greater control over chemical use, ensuring proper sanitation and cost containment.

## HACCP

### VERIFYING QUALITY INDICATORS

Monitoring quality indicators such as pH, temperature and conductivity has never been easier or more cost effective than with the LIGHTNING MVP probes. The reusable probes accurately measure and automatically store results in the LIGHTNING MVP instrument for trending and recordkeeping.



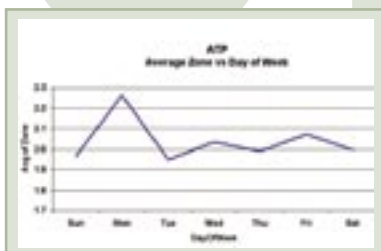
MVP Conductivity, pH, and Temperature Probes are designed to be used on the plant floor and can be calibrated

## ONE REPORT

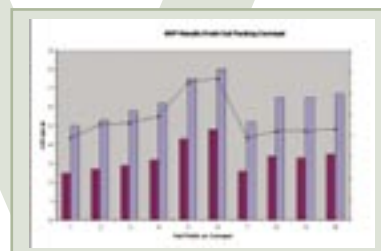
MANAGE AND INTEGRATE TEST DATA WITH MVP TRAX

Test results stored in the MVP instrument may be easily downloaded to a personal computer for analysis and printing. With TRAX, users can sort and view results from individual quality indicators. Additionally TRAX can analyze and integrate data from multiple indicators which allows users to easily identify potential cause and effect relationships that would otherwise be difficult to determine.

MVP TRAX users may submit data on a coded, confidential basis to the LIP Program to receive monthly benchmarking and trend analysis of their plant or multiple plant sites. A comparative summary of all plant locations within a company can also be determined.



Trend individual test results



Overlay data from multiple indicators to identify cause/effect relationships

# SYSTEM COMPONENTS

## MVP INSTRUMENT

- > One instrument that measures and records multiple parameters including ATP, conductivity, concentration, temperature, and pH
- > Dynamic Memory Allocation maximizes the amount of information the instrument can store
- > Handheld, portable, and comes with a carrying case



## MVP TRAX DATA MANAGEMENT SOFTWARE

- > Based on Microsoft Excel® compatible with MS Windows®
- > Proprietary MVP TRAX software is powerful, yet easy to use
- > Allows reporting of single sites or individual indicators as well as multiple-parameter data integration and analysis



## MVP ATP SAMPLING DEVICES

- > MVP Surface Sampling Device features one hand, one step activation, freeing one hand for other operations
- > MVP Liquid Sampling Device automatically collects liquid samples without pipetting
- > Controlled reagent flow design offers superior accuracy and reproducibility



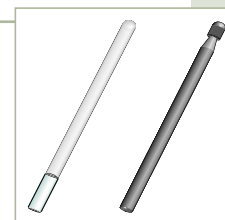
## MVP QUALITY INDICATOR PROBES

- > Conductivity Probe provides a highly accurate and easy test for concentration of sanitizers and cleansers
- > pH Probe features non-glass design, ideal for in-plant use
- > Temperature Probe has a pierced tip and is suitable for most applications from -20° to 105°C



## CALIBRATION OF ALL MVP PARAMETERS

- > Satisfies GMP and HACCP requirements that all measurement systems can be calibrated and documented
- > Calibration set to standardize high and low ATP readings
- > Ensures on-going accuracy of pH, conductivity, concentration and temperature measurements with multi-point pH and concentration, and single point temperature and conductivity calibration



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