

AfiMilk MPC™

Milk Meter for Precision Milking

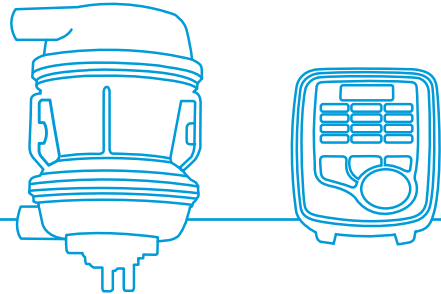


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AfiMilk MPC

Milk Meter for Precision Milking



The easy-to-use AfiMilk MPC milk meter provides full control over the milking process at the milking point. Part of the AfiMilk management system, this ICAR-approved meter transfers valuable data collected during milking to the AfiFarm management program. There, the data serves to enhance daily herd management.

Main Features

AfiMilk MPC offers a series of supporting features and operator aid alerts. The device gathers data that enables farmers to make vital decisions in cow management and to maintain animal health.

Milking Controls

- **Milking** - Built to cope with high milk-flow rates; offers the necessary protection against damaging vacuum fluctuations.
- **Cluster Removal** - Provides accurate, adjustable thresholds for automatic stoppage of milking when milk flow decreases; timed vacuum closure guarantees smooth release of cluster from udder.
- **Pulsation** - Enables two methods of controlling pulsation. Basic control allows configurable rates and ratios, while advanced flow controlled pulsation automatically adjusts pulsation according to milk flow. Pulsation stops when cluster is detached, extending the life of milking equipment, pulsators and liners.
- **Stimulation** - Supports pre-milking stimulation.

Measurements

- **Milk Yield** - Accurately measures milk yield according to ICAR standards; officially accepted for use in national herd books.
- **Conductivity** - Milk conductivity measurement serves as the basis for a unique mastitis detection algorithm implemented in AfiMilk system.
- **Other Measurements** - Gathers and analyzes attachments, flow rates, milking curves and milking times to assess parlor operation and milking procedures.

Technical Features

- **Modular Unit** - Suitable for installation in any type or brand of milking platform.
- **Small Volume Measuring Chamber** - Requires minimal volume of cleaning water.
- **Maintenance** - Low-cost preventive maintenance: requires annual replacement of rubber gaskets only.
- **Tubing** - Available in either 5/8" or 7/8" inlets.
- **Accessories** - An array of efficient, low cost vacuum/air operated vacuum shut-off valves are available.



Control Panel

The device is a plug-in sealed unit designed to withstand the wet and challenging electronic environment of modern milking parlors. Its electronic platform incorporates today's most advanced technology, allowing massive data exchange with the management system, as well as loading parameters and new software to the milk meter, via communication.



AfiMilk MPC – Control Panel

AfiMilk MPC's control panel serves as an interface between the operator and the AfiMilk management system. By presenting relevant information regarding the cow being milked, the device helps operators make decisions about milking specific cows.

The Control Panel displays:

Alert Codes

This extremely important application alerts users about irregular operations or cows needing special attention during milking.

- Codes are assigned to cows producing milk to be rejected (i.e. colostrum/antibiotics/high SCC/blood). Codes may be set to lock the start milking key for cows which milk may contaminate the bulk milk. These codes alert operators to milk cows into buckets; milking mode lock is released by means of a keyboard password.
- Health code alerts may be set to indicate specific cows that require special attention or treatment.



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Cow Data

Shows cow number when it is identified at the milking point. Milk weights replace cow numbers when milking starts. Additional cow data can be retrieved at the touch of a button.

Kick-Off Alert

Alerts sent when yields are lower than expected for specific cows.

Mastitis Alert

Real time parlor alerts sent when probability of mastitis is high (i.e. milk below expected levels and conductivity above the norm).

Fault Alerts

Milk meter and connected apparatus faults are indicated by error messages.

Messages

Messages may be sent from the milking point to the PC.