CVe Monitor® V2

Ultimate flexibility in tracking mold activity
CVe Monitor®

General Description
Expanding beyond the capabilities of the Counterview R-Series and 100/200 Series, the new CVe Monitor v2 tracks mold activity, allowing users to view the data on the display or from comprehensive reports using OnDemand software or the new CVe System.

Benefits
- 7-digit LCD display with a push button to move through the display modes
- 4GB flash drive for file storage and 4+ year battery life
- Water resistant with an ingress protection rating of IP52
- Maximum temperature: 190° F (90° C)
- Dimensional compatibility with mechanical CounterViews
- Mini USB (with cable) connectivity for data retrieval sold separately

Mounting Options

How to order:
- For installation below parting line (i.e. rails as shown in center drawing above), order (1) CVEINT or CVEINTID
- For installation outside of the mold (right drawing) order (1) CVEMBID or CVEMBMD

On-Mold Display Modes
Each device is provided at -25 cycles to allow for mold setup and initialization of the CVe Monitor. Once it reaches zero, all timers and data will reset on the monitor. During production, users can press the button on the front of the monitor and review the following information on the display:

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>DESCRIPTION</th>
<th>MOUNTING STYLE</th>
<th>SCREWS (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEPILID</td>
<td>CVe Inch</td>
<td>Parting Line</td>
<td>#8-32 x 1” SHCS</td>
</tr>
<tr>
<td>CVEPLMD</td>
<td>CVe Metric</td>
<td>Parting Line</td>
<td>M4 x 25mm SHCS</td>
</tr>
<tr>
<td>CVEINTID</td>
<td>CVe Inch (with 8” rod)</td>
<td>Extension (Includes 8” rod)</td>
<td>#8-32 x 1” SHCS</td>
</tr>
<tr>
<td>CVEINTMD</td>
<td>CVe Metric (with 203mm rod)</td>
<td>Extension (Includes 203mm rod)</td>
<td>M4 x 25mm SHCS</td>
</tr>
<tr>
<td>CVEMBID</td>
<td>CVe Inch (with Mounting Block)</td>
<td>Parting Line</td>
<td>#8-32 x 1” SHCS</td>
</tr>
<tr>
<td>CVEMBMD</td>
<td>CVe Metric (with Mounting Block)</td>
<td>Parting Line</td>
<td>M4 x 25mm SHCS</td>
</tr>
</tbody>
</table>

Cycle Count
Total cycles for the life of the mold is presented on the main screen of the CVe Monitor.

Cycle Time
Since the first production cycle, the cycle time is shown in seconds for the life of the mold.

Cycle Time - Recent
Cycle time for the past 25,000 cycles.

Users can utilize the 4GB flash drive on the CVe Monitor by connecting the device to a PC using an industry-standard mini USB cable (see next page). Users press the button to get to the flash drive mode and then the storage area is represented on the PC by a new drive letter.

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U.S. 800-626-6653  •  Canada 800-387-6600  •  Mexico 52 442 713 5666  •  sales@dme.net  •  www.dme.net
Alert Mode

Once data is initialized using the OnDemand software, users will be alerted to different modes on the device:

**Preventive Maintenance**

During initialization, the initial preventive maintenance point and the PM interval is entered and saved onto the CVe Monitor. Then, when the PM is within 10% of the initial point, the display will flash “PM Due” as shown at right. Users can then ‘snooze’ the alert by holding for 2 seconds, returning it to Total Cycles.

When a PM is performed using OnDemand software and noted as such, the date/time will be written to the CVe Monitor and then the alert is stopped until reaching 10% of the next PM point. If no PM is performed, the CVe Monitor will continue to alert the user until snoozed or the PM is ultimately recorded.

**Low Battery**

The CVe Monitor has a battery life of approximately 4.5 years in typical molding environments where temperatures are controlled. When the battery is within 6 months of its expected end of life, the display will flash as shown at right. Users can then ‘snooze’ the alert by holding for 2 seconds, returning it to the Total Cycles. The alert will appear every 30 days as a reminder to transfer the stored data to a new CVe Monitor.

**Retrofitting and Removal**

Users can view additional data by double-clicking the button on the monitor:

**Retrofit CVe for CounterView Tools**

During initialization, users can start the cycle count with the tool’s actual cycle count from an existing CounterView or known cycles from maintenance records. Once entered, the user can see the total cycles for the tool, which includes the count of the cycles from the counter and those run with the CVe Monitor. In the screen at right, the tool had 1,000,000 cycles on it originally, but ran 507,288 cycles after the CVe Monitor was installed.

**Removal Monitoring**

When the CVe Monitor is removed from the tool for any reason (i.e. cleaning) the pins on the back of the device will record an event of its removal. After viewing the retrofit number above, the display will move into the screen shown at right, designating the number of times the monitor was removed from the mold.

Above: OnDemand software allows users to view data and keep a record of reports run, outlining the reason for the report generation including PM, general queries, revision changes, and repairs. Notes can be included and OnDemand records the person generating the document for accurate history.

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CVe On Demand

Drive comprehensive reporting using data from the CVe Monitor when running the OnDemand software is available at no charge from CVeMonitor.com.

OnDemand software enables the user to generate Adobe Acrobat (.pdf), Excel (.xls), and encrypted (.enc) reports to share with customers and other colleagues with these metrics:

A: When the CVe is initialized, users can identify their tool and align with the device serial number which is tracked on reports utilizing different field options.

B: The target cycle times and efficiency percentages can be entered. OnDemand also supports 10 languages: English, German, Mandarin, Spanish, French, Italian, Japanese, Korean, Portuguese and Thai. Reports, generated in the chosen language, compare actual values to targets, providing a quick view of any variances.

C: Statistics are provided to show quantity of total cycles and inactivity for the life of the tool.

D: Weekly sessions are presented graphically to show production efficiency levels.

E: Weekly cycle time tracking identifies tools with variances over the past year.

F: The productivity portion of the report takes the target preventive maintenance (PM) points set by the molder and compares them to actual maintenance.

Program Watch™

OEMs and tool owners can view details and variances on their tools within a program by purchasing Program Watch from AST. For more information, contact your territory manager, customer service, or email AST directly at orderdesk@ast-tech.de.
CVe Live

For real-time monitoring of tools, AST provides hardware and website access for OEMs and molders utilizing the CVe Monitors.

Features:
- Utilizes FCC and CE certified internal components
- Press Modules act as a node on a network, reducing the distance required in the plant for data submission to the Gateway
- Radio Frequency (RF) antennas are interference-free in typical molding environments
- Designated website for data collection, reporting, and file storage

Press Module
- 1 per press connects to the CVe Monitor via cables
- Power supply (US/International) included
- Sends data to the Gateway continuously
- Serves as a node on the network for tool running with a CVe Monitor

Gateway
- 1 per facility collects data from all press modules installed via RF transmissions
- Power supply (US/International) and CAT5 Ethernet cable included
- Accesses the internet, and AST technicians will work with the IT departments for installation
- Sends data to the website every 15 minutes

CVe Live Website
- Secure access for OEMs and molders is set up at the time of installation of the CVe Live hardware
- The dashboard gives information at a glance and allows for drill down into specifics on each tool
- User can mark favorites and also save searches for monitoring specific programs or suppliers
- Graphs for cycle times, efficiencies, and also preventive maintenance can be shown and saved
- Administration and security levels are controlled by the user, and access can be given to subcontractors to upload information or to initialize the CVe Monitors to begin submitting data

The file cabinet system is designed to store reports, tool and part drawings, and setup sheets can be utilized by customers with the Live system installed or those using OnDemand who are looking to have or give global access to tool information.

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DME Company Today

Since innovating the standard mold base in 1942, DME Company has evolved to become an essential resource for molders, moldmakers and mold designers around the world. Today DME offers the broadest range of mold technologies from mold bases and components, hot runner systems, control systems and moldmaking equipment and supplies to metalworking components, die casting equipment and a complete line of industrial supplies for facility management.

Businesses around the world rely on DME’s global resources, including standard-setting quality, exceptional customer support and technical service. Capitalizing on its status as a Milacron company and with locations, operations, and strategic relationships around the globe, DME truly is a global partner that is determined to help you succeed in today’s worldwide economy.

And when your operational needs extend beyond our direct offers, DME is poised to help by reaching out to other Milacron companies for the expertise, innovation and best-in-class solutions you need to address your greatest challenges.