Thermo Scientific Dionex Consumables Device Monitor
Automatically track the use and performance of Dionex IC consumables

Product Spotlight

Until now, monitoring consumable performance over time required either manual logbook entries, or complicated queries. The Thermo Scientific™ Dionex™ Consumables Device Monitor incorporates memory tags and chips into each consumable.

When a tagged consumable is installed in a compatible system, such as the Thermo Scientific™ Dionex™ Integrion™ HPIC™ system, the Thermo Scientific™ Dionex™ Chromeleon™ Chromatography Data System (CDS) software automatically identifies that consumable and maintains a record of its installation, use, and performance metrics. Data is stored directly on the memory tag, ensuring that it is transferred with the consumable item*.

What are the benefits of consumables tracking?

The Dionex Consumables Device Monitor takes the guesswork out of consumables monitoring, providing information on the performance metrics of each consumable. In addition to recording the installation, use, and decommissioning of a consumable, the Dionex Consumables Device Monitor alerts an operator when consumables are mismatched within a system.

Specification data

Before packaging, comprehensive specification data is written to the memory tag of each consumable. This data can be retrieved using the front panel of the instrument or from within the Chromeleon CDS software to review specifications for the consumable. For separator columns, the Quality Assurance Report (QAR) results are also written to the memory tag. This allows the manufacturing test data to be downloaded into the Chromeleon CDS software, simplifying QAR reproduction.

Commissioning date

The first time a consumable is used, the Chromeleon CDS software writes a time and date stamp to the consumable. Not only does this allow the software to track the age of the consumable, but it ensures that if a used consumable is inadvertently installed in a system, the operator is alerted to the mistake.

Number of injections

One way to know when a consumable should be decommissioned is to monitor the number of injections for which it has been used. With the Dionex Consumables Device Monitor, the Chromeleon CDS software records each injection that is made and the count is stored in the memory tag on the consumable. If a consumable is moved between systems, the injection count follows the consumable, keeping the injection record accurate.
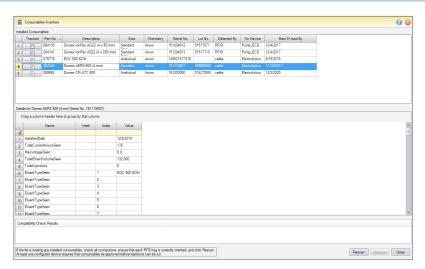
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Performance metrics

The Dionex Consumables Device Monitor monitors up to 16 key performance metrics on up to nine different consumables simultaneously. Each consumable may be monitored for different key parameters, with the values of these parameters stored within the memory of the consumable itself. Parameters may include maximum pressure, maximum temperature, eluent volume, voltages, electrical currents, background conductivity, and flow rate data.

The stored data can be used to monitor the performance of a consumable over time. If a key metric begins to deteriorate, a clean-up protocol can be executed, or a replacement consumable ordered, before the consumable fails. Not only does this ensure maximum uptime, but it also ensures that the malfunctioning consumable is quickly identified, simplifying the often hit-and-miss nature of troubleshooting.
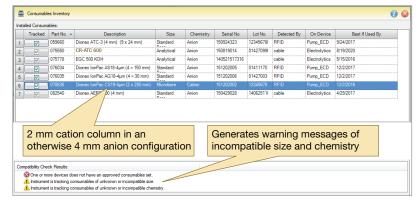
Using the Unity™ Lab Services Remote Services software in conjunction with the Dionex Consumables Device Monitor, provides proactive notifications of changes in the status of a consumable. These notifications are sent to key operators to alert them that it is time to perform preventative maintenance, minimizing downtime and making that downtime easier to accommodate in the laboratory schedule.

* The wireless transmitter devices may not be authorized as required by the laws of your country; and these features will not be, offered for sale or lease, or sold or leased, until proper authorization is obtained. Please consult your local sales representative for details.

Consumables Tracking Suppressor

System Compatibility

The complete Dionex Consumables Device Monitor is included on models of the Dionex Integrion IC system that include the Thermal Control option. Consumables that have an electrical connection, such as an electrolytic suppressor or CR-TC, are tracked on all Dionex Integrion IC system models.

Consumables Compatibility Checking in the Chromeleon CDS software

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