

Dionex ICS-6000 Consumables Tracking Quick Start Guide

Setting Up Consumable Tracking

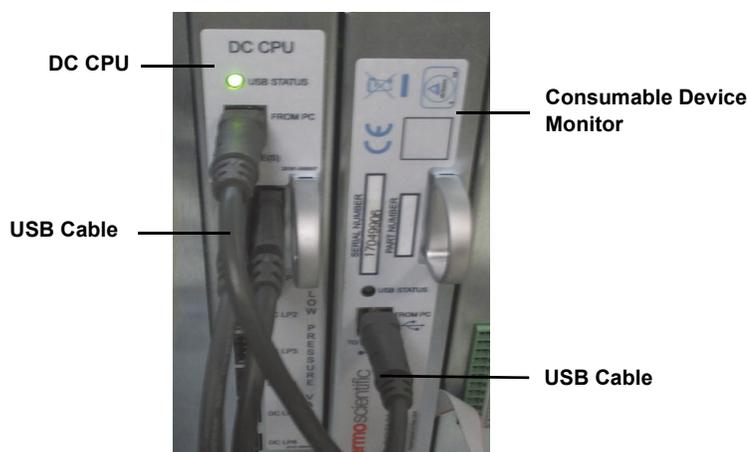
Many of the non-powered consumables (including analytical columns and chemically-regenerated suppressors) used with the Thermo Scientific™ Dionex™ ICS-6000 Ion Chromatography System are capable of RFID (radio-frequency identification) communication.

The Consumable Device Monitor (CDM), a smart RFID controller, provides the necessary interface to these consumables. When installed in the Thermo Scientific™ Dionex™ ICS-6000 Detector/Chromatography Compartment (DC) and configured in the Thermo Scientific™ Dionex™ Chromeleon™ 7 Chromatography Data System, the CDM can automatically identify RFID-enabled consumables and track various usage parameters.

❖ To configure the CDM

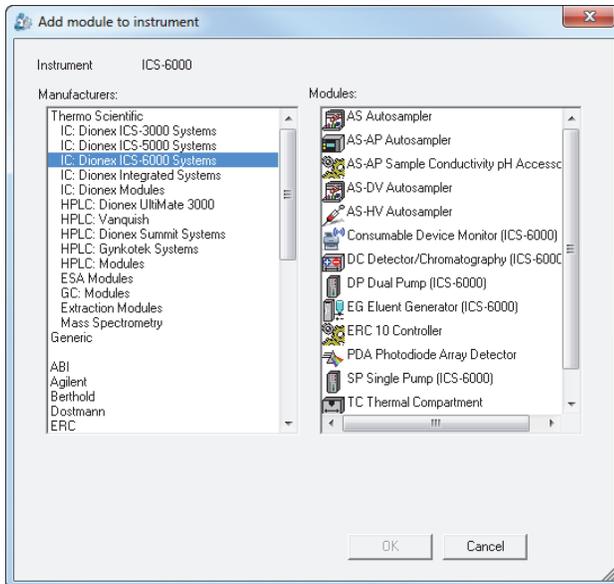
1. Check the DC rear panel to verify that the CDM is connected to a USB port on the CPU board (see [Figure 1](#)). The USB cable (P/N 00302-99-00132) required for the connection is provided in the Consumable Device Monitor Kit (P/N 22181-60031).

Figure 1. DC rear panel: Consumable Device Monitor connection to DC CPU



2. In the Chromeleon Instrument Configuration Manager, right-click the Dionex ICS-6000 instrument to which you want to assign the CDM and click **Properties**. The Add module to instrument dialog box appears (see [Figure 2](#)).
 - a. Under **Manufacturers**, select the Dionex ICS-6000 instrument to which you want to assign the CDM.
 - b. Under **Modules**, select **Consumable Device Monitor (ICS-6000)**.
 - c. Click **OK**.

Figure 2. Add module to instrument dialog box



3. Right-click the CDM in the instrument tree. The Properties dialog box for the CDM appears.
4. On the **General** tab page, select **Live** mode (see [Figure 3](#)).

Figure 3. CDM Properties dialog box: General tab page

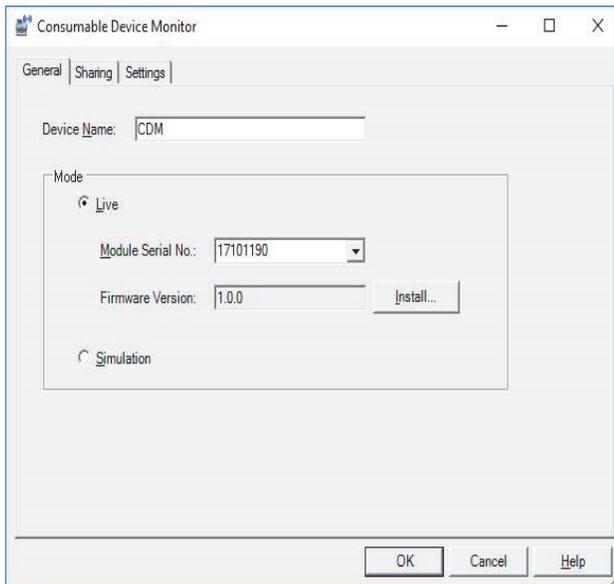


Figure 5. RFID tags parallel to the DC floor

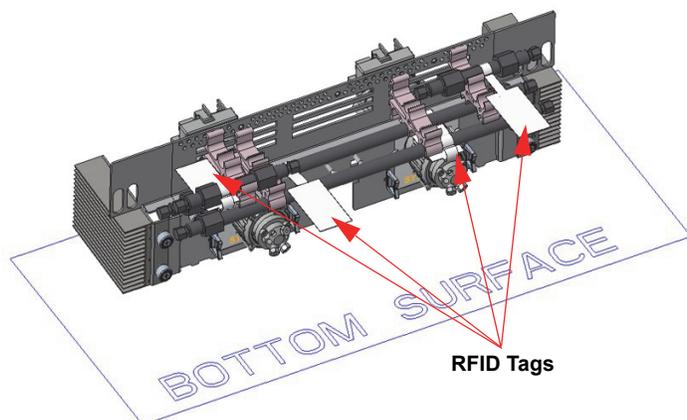
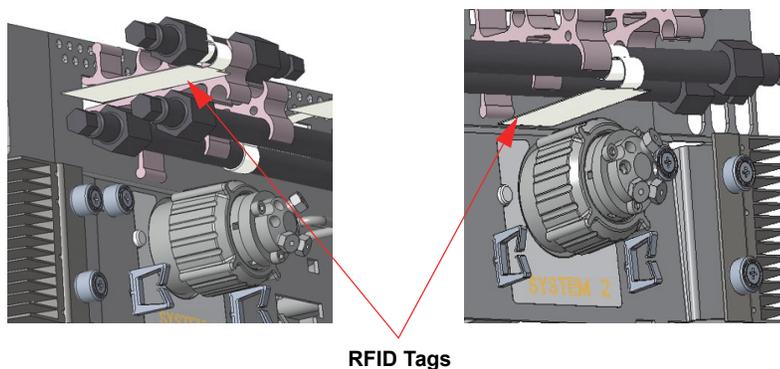


Figure 6. RFID tags on underside of columns



❖ **To scan consumables**

1. In Chromeleon, click the **Rescan** button in the Consumables Inventory window. It may take up to 3 minutes for all consumables to be scanned; during this time, you may close the inventory window and perform other tasks in Chromeleon.

Note The names of any previously detected consumables may temporarily turn red while scanning is in progress. This does not indicate a problem.

2. When all trackable consumables have been scanned, check the results in the Consumables Inventory window. If a newly installed consumable is not listed, refer to “RFID Communication Error” (see Chapter 9 of the Dionex ICS-6000 operator’s manual) for help. Adjust RFID tags as needed, and then click **Rescan** again.

❖ **To select consumables to be tracked**

For each consumable to be tracked, click the corresponding **Tracked** check box in the Consumables Inventory window (see [Figure 7](#)).

Figure 7. Consumables Inventory window

Tracked	Groups	Thermal Assoc.	Part No.	Description	Size	Chemistry	Serial No.	Lot No.	Detected By	On Device	Best If Used By
<input checked="" type="checkbox"/>	Anion_AS11	DC.Column_TC	044076	Dionex IonPac AS11 (4 x 250 mm)	Microbore	Anion	170610109	01619025	RFID	CDM	n.a.
<input checked="" type="checkbox"/>	Anion_AS11	DC.Column_TC	044078	Dionex IonPac AG11 (4 x 50 mm)	Standard	Anion	170612023	01619025	RFID	CDM	n.a.
<input checked="" type="checkbox"/>	n.a.	n.a.	057574	Dionex IonPac CG16 (5 x 50 mm)	Standard	Carion	170510106	01619006	RFID	CDM	5/10/2019
<input checked="" type="checkbox"/>	n.a.	n.a.	075778	EGC 500 KOH	Analytical	Anion	170532406312		cable	EluentGenerator	5/24/2019
<input checked="" type="checkbox"/>	n.a.	n.a.	073805	Dionex IonPac CS16 (5 x 250 mm)	Standard	Carion	170727038	01427159	RFID	CDM	7/27/2019
<input checked="" type="checkbox"/>	n.a.	n.a.	088666	Dionex HERS 600 (4 mm)	Standard	Anion	170628000	99999999	cable	DC	n.a.

- If this is a standard single system (one flow path) or standard dual system, accept the default information in the Groups column.

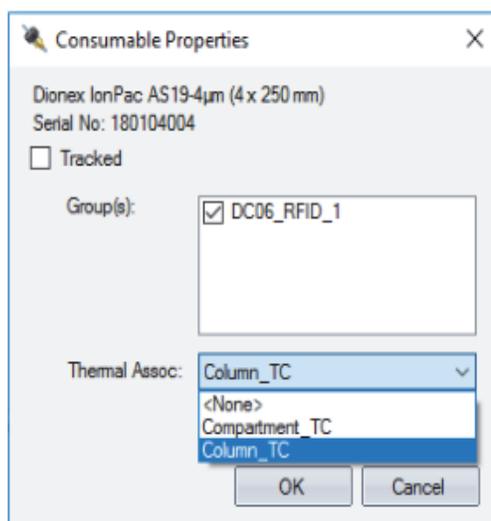
Note If more than one flow path or channel is configured in the same Chromeleon instrument (as with simultaneous and column switching applications), two consumable groups must be created. For instructions, refer to the Dionex ICS-6000 operator’s manual or the Chromeleon Help.

- A lock icon in a **Tracked** check box indicates that the consumable is currently assigned to another instrument (second flow path) and cannot be selected.
- Do not click the corresponding **Tracked** check box for any consumable that will be used in another instrument or channel. These consumables should be selected from the Consumables Inventory window of the other instrument.
- Consumables that use wired communication (including eluent generator cartridges and suppressors) are automatically connected and do not need to be selected.

❖ **To assign the temperature zone for a consumable**

1. Click **Thermal Assoc.** The Consumable Properties dialog box appears (see [Figure 8](#)).

Figure 8. Consumable Properties dialog box



2. Select the compartment in which the consumable is installed:
 - **Compartment_TC** is the DC upper zone (with the detectors)
 - **Column_TC** is the DC lower zone (with the injection valves)
3. Click **OK**.

Removal and Storage of Consumables

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❖ To confirm all installed consumables

Click the **Approve** button in the Consumables Inventory window.

Note For a dual system, repeat the above procedures for the second instrument/channel.

❖ To remove and store a consumable

Before removing a trackable consumable from the system, click the **Store** button in the Consumables Inventory window. This writes the latest system data to the RFID tag attached to the consumable.

❖ To contact Technical Support for Dionex products

- In the U.S. and Canada, call 1-800-532-4752.
- Outside the U.S. and Canada, call the nearest Thermo Fisher Scientific office.

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