

04/15/2015

EDI-C7 Control with CleanSweep
Version 7.12 and later

The new EDI-C7 controls now have a built in routine called CleanSweep that takes care of keeping a clear spout path without the operator's involvement. Older C7 controls may be field updated to incorporate the Cleansweep routine. Please call us for information on the upgrade.

CleanSweep is an automated routine that will make sure that the spout on a Swingset or Flatback distributor will travel to both extreme end ducts to help keep the buildup of dust and moisture within the distributor from affecting its operation.

CleanSweep is turned off by default but can be turned on by the operator using the C7 Menu key. Setup of CleanSweep is explained below.

The operation of CleanSweep can be best explained by example. For this discussion we will assume the following situation:

8-Duct Swingset Distributor with CleanSweep set for 4 hours. The distributor is used daily.

CleanSweep will now require that the extreme ends (ducts 1 and 8) will be accessed at least once every 4 hours. **Note: The CleanSweep routine will never move the spout on its own. The sweeping operation only takes place when there is a command to move to a new position.**

If, during normal use, both end ducts are accessed within the 4-hour period, CleanSweep will have no effect on the distributor operation.

However, if duct 1 or 8 has not been accessed during the 4-hour period, CleanSweep will display '**CleanSweep Now**' on the bottom line of the C7 control. When this statement is shown and the spout is moved to a new position, it will automatically sweep the spout to positions 1 and 8 before setting itself to the requested position. The C7 control then resets the CleanSweep timer to 4 hours.

Temporarily Bypassing CleanSweep

The operator can position the spout directly to the desired duct without waiting for the CleanSweep operation by entering a zero prior to the access number. For example, if it is desired to move to duct 5, the operator would normally press **5 <enter>**. To bypass the CleanSweep routine press **05 <enter>**. The spout will move directly to position 5 instead of sweeping to the end ducts first. The '**CleanSweep Now**' statement will continue to appear and the CleanSweep timer will not be reset.

Infrequent Or Seasonal Distributor Use

It may be effective to sweep the distributor if it will not be used for an extended period of time. If the '**CleanSweep Now**' statement is showing and the distributor is not being used, the operator may simply send the spout to any (or the same) location to initiate the sweeping routine.

CleanSweep With A PLC

CleanSweep can be used in those cases where the distributor is controlled by a PLC. In this case CleanSweep is totally transparent to the PLC – it just takes a little longer for a move command to finish if the sweep was necessary. All of the rules above apply except the PLC cannot prevent a sweep by entering a zero before the access number.

As an alternative to CleanSweep, the PLC can be programmed to run its own sweep program every day at a time when the distributor is not being used.

Configuring Cleansweep

Repeatedly press the **<MENU>** button until '**4- CleanSweep Setup**' appears. Press '**4**' to enter the setup page. Enter the number of hours desired between CleanSweep operations (1 – 24) then press **<ENTER>**. This sets the hours between CleanSweep intervals and turns CleanSweep on. Entering (0) hours turns CleanSweep off.

When CleanSweep is on, a countdown timer is shown in the bottom line of the display showing the time left before a CleanSweep alarm.