

This edition of TechTALK focuses on **DOSING PROGRAMS** for the NMC Controllers.

The Netafim NMC Controllers (NMC Pro, NMC DC, and NMC Junior Pro) have ten (10) Dosing (chemical) Programs that can be assigned to irrigation valves. To reach the Dosing Program screen, press **MENU > 1 > 3**.

In each of the ten Dosing Programs, you can define the chemical combinations delivered to the associated irrigation valve by customizing the delivery method, quantity of chemical, and the desired EC/pH target (if applicable).

In the example to the right (FIGURE 1), the controller is telling us that dosing channels 1 and 2 cause a reaction in the EC (electroconductivity) of the irrigation water. Dosing channel 3 causes a reaction in the pH of the irrigation water. These reactions are predefined by a technician in menu 7.6 during the controller's installation.



A Dosing Method can be selected for each reaction type (according to the EC or pH influences of each dosing channel).

The methods are:

P.QTY = Proportional Quantity in Gallons of chemical per 1000 gallons of water. When EC or and pH control is required, the P.QTY method must be selected.

P. Time = Proportional Time takes the required dosing time and spreads it out over the irrigation program. For example, if the irrigation run time is 4 hours and the time on dosing channel is 01:30, the controller will spread the 1½ hours of chemical injection over the 4 hours of irrigation water.

Time = The chemical is injected once for the length of time defined on the screen.

QTY = The chemical is injected once for the quantity defined on the screen. The quantity can be injected two ways. Bulk or Spread. Bulk injects the chemical all at once. Spread splits the chemical up over the irrigation run time. This bulk/spread value is defined by a technician in menu 7.7 during the controller's installation.

The **Target EC and pH** values tell the controller to inject chemical while maintaining those targets. The NMC Controller will adjust the Chemical and Acid proportions to reach these values. A titration test must be done to confirm that the concentration of the chemical and capacity of the dosing channel is sufficient to reach the desired EC/pH target.

Once a Dosing Program has been defined, it can be assigned to a valve in an irrigation program (Figure 2).

Certified CMT (Crop Management Technologies) Dealers can access all relevant NMC user and installation manuals from the Netafim CMT portal.

For more information or to become a certified CMT Dealer, contact your local Netafim representative. You can also visit our website - www.netafimusa.com - or contact Customer Service at (888) 638-2346.

FIGURE 1

DOSING PROGRAM			
Program: 1			
INJECTION PER DOSING CHANNEL			
1	2	3	---
EC	EC	ACID	---
5.00	5.00	5.00	---
Target EC	1.50		
Target PH	5.50		
EC Dosing Method	P.QTY		
PH Dosing Method	P.QTY		

P. QTY
P. TIME
TIME
QTY.

FIGURE 2

DATE : 1-May-12		TIME : 10:12:09	
IRRIGATION PROGRAM			
Program: 1	Priority: --	Const.	50%
Start Time	07:00	12:00	16:00
Clock Start	2	1	1
Min. Time	01:00	00:30	--:--
Valve #	051+05	004+116	115 255
Run Time #	1 1	2 2	2 --2
Dosing Prog	1 1	3 3	4 4
Day: 04/06	1 2 3 4	5 6	
Dose / Water	D W - D	W D	