



SOUTHERN IRRIGATION

Intelligent Water Solutions

Netafim NMC Pro Controller



The NMC Pro Does More Than Just Open and Close Valves

Netafim USA's NMC Pro System Manager is fundamental to achieving the most production with the least amount of labor. Reducing irrigation labor costs means your time can be spent on other farming activities. This system provides the control necessary to optimize irrigation efficiencies and fertilizer injection functions.

System expandability means the control system can grow based on the future needs of your operation. When combined with optional expansion cards and boxes, the NMC Pro System Manager can control up to 256 outputs and

54 inputs. Additional output cards are easy and quick to install.

APPLICATIONS:

- Greenhouses, Nurseries, Rowcrops
- Monitor and Control Systems

FEATURES:

- Irrigation Programs
Repeat and modify your irrigation schedules as needed with up to 60 valve run time programs using time or volume based scheduling.
- Irrigation Trigger Programs
Up to 15 external condition programs with programmable parameters for triggering irrigation events.
- Pump Control Programs
Control multiple pumps, delay start or shut down times between pumps and valves
- Filter Flushing Programs
Schedules backflush programs eliminating the need for additional external backflush controllers
- Fertilizer and Nutrient Injection Programs
A range of dosing options are available – by time, quantity or proportional along with detailed alarm messages
- Cooling Programs
Programmable parameters including set points for activating cooling systems
- Alarm Programs
A range of alarms protects the system by isolating the problem and providing event details

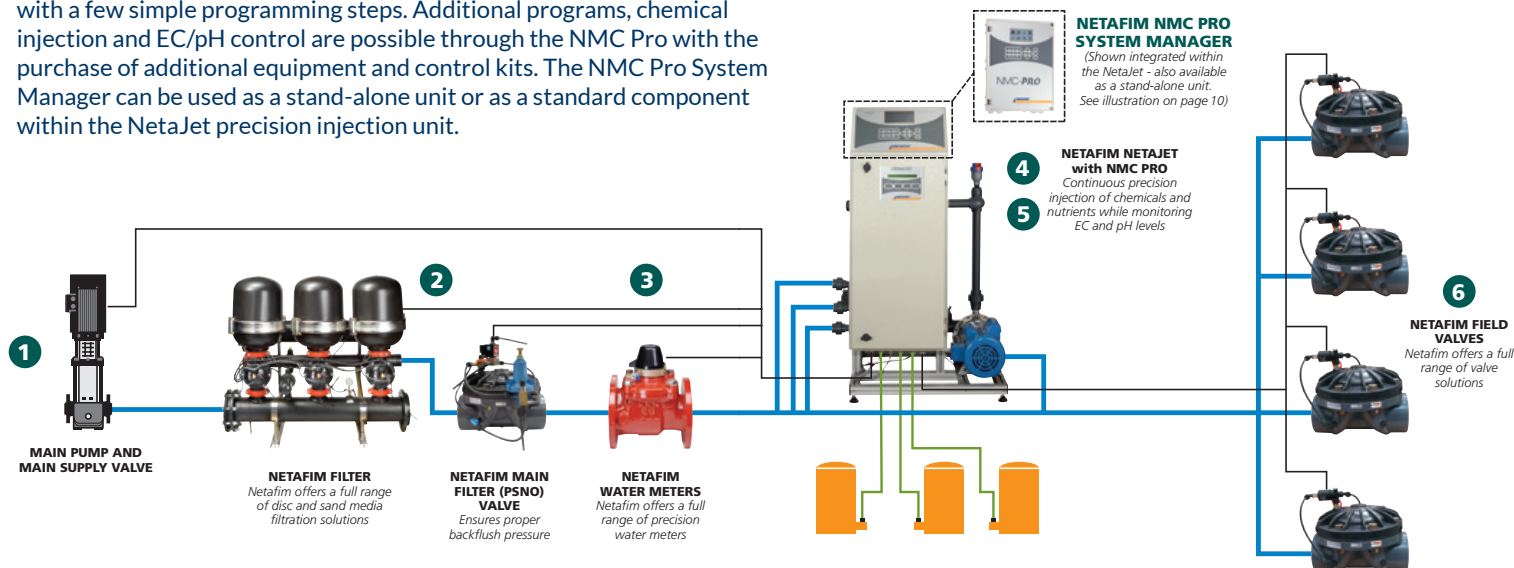
SPECIFICATIONS:

- Up to 256 Control Outputs
- Up to 32 Digital Control Inputs
- Up to 22 Analog Control Inputs
- 15 Irrigation Programs
- 8 Dosing Channels
- Flushing up to 24 Filters
- Cooling
- Fertigation by Time, Quantity, Proportional Time or Proportional Quantity
- History of Water and Fertigation Events
- EC/pH Control
- PC Communication



NMC PRO PROVIDES AN EXPANDABLE INTEGRATED IRRIGATION SYSTEM SOLUTION

As part of Netafim's integrated system approach, the NMC Pro System Manager monitors and controls Netafim quality filters, valves, and water meters maximizing the performance of the irrigation system. Basic irrigation and filtration functions (1, 2, 3 and 6 below) can be automated with a few simple programming steps. Additional programs, chemical injection and EC/pH control are possible through the NMC Pro with the purchase of additional equipment and control kits. The NMC Pro System Manager can be used as a stand-alone unit or as a standard component within the NetaJet precision injection unit.



1

Monitors, controls and logs filter backflushing and controls main filter valve (PSNO valve)

6

Flexible programming options for filter backflushing eliminates the need for additional external backflush controllers. These programming options ensure smooth, reliable performance.

- Operates via time and/or pressure differential
- Programmable dwell/delay times for main filter valve and between individual filter units
- Records backflush history for easy troubleshooting and fine-tuning
- Programs and controls up to 24 individual filter units

3

Monitors and logs water flow

Water flow is monitored and logged with recorded data for totals, limits, alarms and actions.

- Provides water flow data for setting flow limits
- Shuts down system based on high/low flow limits
- Records high/low occurrences as alarms
- Monitors and controls up to 6 water meters

2

Operates main pumps, main supply valves and operates field valves

The NMC Pro turns the main irrigation pumps or main supply and field valves on and off.

- Activates up to 6 main irrigation pumps or up to 6 main supply valves
- Differential operation of pumps based on real-time flow rates
- Schedules irrigation application totals via time or quantity with up to 15 irrigation programs
- Operates field valves via 24VAC solenoids
- Operates up to 60 valve run time programs
- Operates up to 255 irrigation field valves

4

Controls Fertilizer and Chemical Injection and Monitors and Controls EC and pH Levels

5

Controls precision injection and dosing when combined with a compact unit such as a NetaJet.

- NetaJet offers three to five proportional dosing channels
- Precision injection based on time, quantity, EC and pH sensors or proportional to water flow for optimum system performance
- EC and pH programs do not have to use the same program parameters. As an example, fertilizers can be programmed to inject based on time or quantity while acid is programmed to inject based on proportion to water flow and pH set point
- Logs fertilizer meter flow rates and accumulates totals
- Maintains consistent pH level in most irrigation water ensuring maximum availability of nutrients within the root zone
- Monitors and controls up to 6 water meters