AquaMatic® Stager Controls

48ES and 51ES Series

The AquaMatic® 48ES and 51ES Stager Controls utilize the NEMA 4 Enclosure and the Multi-Language NXT Controller which can be programmed for English, Spanish, Portuguese, Dutch and French. The Multi-Language NXT uses on-board communication capabilities to link multiple stagers (via off-the-shelf CAT5, or better cables) for a variety of system types.

AquaMatic Stager internal parts are constructed of durable, non-corroding, self-lubricating materials for long, maintenance-free life.

This fully programmable series of controls provide the ability to fine-tune the operation to meet the application requirements.

Pentair Water

Features and Benefits

- **2x16 Character Backlit LCD Display**

- **Networks Up to Four Stagers**

- **Field-Configurable for System Types**

- **LED Status Indicator**
  - Solid blue (service)
  - Flashing blue (regen queued)
  - Solid green (regen)
  - Flashing green (standby)
  - Solid red (error)

- **Auxiliary Inputs and Outputs**
  - Remote signal start input (certain system types)
  - Remote lockout input
  - Programmable relay output/ chemical pump output

- **Easy Installation with Plug-In Wiring Harnesses**

- **Front Panel Diagnostics Button**
  - Flow rate
  - Peak flow rate
  - Totalizer
  - Hours between last two regenerations
  - Hours since last regeneration
  - Adjustable volume remaining
  - Valve position
  - Software version

- **Easy Time of Day Adjustment –** Simply push the up or down button on the lead (#1) controller; time of day is automatically copied to the remaining controllers.

- **Remote Signal Start –** Can be used simultaneously with time clock, meter immediate, or meter delayed regeneration types. Allows monitoring of flow and volume information in remote signal start applications.

Options
– 3-way universal solenoid installed
– Auxiliary 2 switch cam
  - Notch in service
  - Notch in backwash

Specifications

ML-NXT

System 4	Single Stager	Time Clock: No Meter	Delayed: One Meter
		Immediate: One Meter	Remote Signal Start: No Meter
System 5 (Interlock)	2-4 Stagers	Immediate: All Meters	Remote Signal Start: No Meter
System 6 (Series)	2-4 Stagers	Immediate: One Meter	Remote Signal Start: No Meter
		Delayed: One Meter	
System 7 (Alternating)	2 Stagers	Immediate: One Meter	Remote Signal Start: No Meter
System 9 (Alternating)	2-4 Stagers	Immediate: All Meters	Remote Signal Start: No Meter
System 14 (Demand Flow)	2-4 Stagers	Immediate: All Meters	

ML-NXT's Generic Meter Guidelines

Open collector output
Pulse rate generated must not exceed 100 pulses per second (100 Hz), or 6,000 pulses per minute
Support for meter outputs in the range of 1-255 gallons (25.5 m^3) for every 1-255 pulses Example: 35 gallons/100 pulses (= 3.5 gallons/10 pulses, = 0.35 gallons/1 pulse)
Meter must operate at 5 VDC

Electrical Rating

24 VAC Transformers	115 VAC +/- 20% input, 24 VAC output w/40 VA
	230 VAC +/- 20% input, 24 VAC output w/108 VA

Humidity

95% RH, non-condensing