



HYDROMATIC®

NOVUS SERIES

A New Generation of Custom Controls



Pentair
Water™



Custom Pump Controls

HYDROMATIC® NOVUS SERIES

A New Generation of Custom Controls



EXPEDITED ORDERS AVAILABLE!

EXTENDED WARRANTIES AVAILABLE!

The Custom Controls Solution Provider

Hydromatic has a reputation for providing dependable submersible pumps for wastewater lift stations and has continually “raised the bar” for quality products and customer expectations. This reputation continues with a new generation of custom controls...the HYDROMATIC NOVUS Series. In a time when the market is saturated with average controls provided by local panel shops with inadequate pump experience, Hydromatic offers a total solution for the design engineer, contractor, developer and municipality. This solution provides custom controls, coupled with quick delivery, competitive pricing, dependable customer service from start to finish, unlimited options and an extended warranty for both the controls and the pump, all under the quality name of Hydromatic. Having a single source for custom controls and dependable pumps means less work in qualifying an alternative source as well as less administrative efforts and lower costs. The HYDROMATIC NOVUS Series offers a real advantage by supplying a turnkey wastewater lift station package when significant engineering effort is required.



Complete Management

The HYDROMATIC NOVUS Series gives you complete control over simplex, duplex or triplex wastewater lift stations through state-of-the-art controllers. Using sensor inputs for Hydromatic submersible pumps, the controllers use three to five float systems or pressure transducers to control liquid levels. In addition, the controllers include outputs to control the pump(s), a high alarm light, seal fail light(s), over temperature light(s), pump run light(s) and an alarm horn. Plug-in terminal strips make field repairs and troubleshooting quick and easy. The controllers are mounted in your choice of enclosure type with an alarm light, circuit breakers, and motor starter(s).

A New Generation

Custom built to your specifications and individually tested, the HYDROMATIC NOVUS Series is available in five different models: 1000, 1000 Plus, 2000, 3000 and 4000. The series starts with the dependable yet inexpensive HYDROMATIC NOVUS 1000 Series which features basic relay logic controls in a quality NEMA 3R painted steel enclosure. The next model is the HYDROMATIC NOVUS 1000 Plus Series offering additional features in a NEMA 4X enclosure for Hydromatic 2HP grinder packages.

The HYDROMATIC NOVUS 2000, 3000, and 4000 Series offer more advanced features. These series utilize state-of-the-art digital controllers that are optimized for submersible pumps in simplex, duplex or triplex wastewater lift stations.

**Novus 2000 Simplex
Controller Unit**



**Novus 2000 Duplex
Controller Unit**



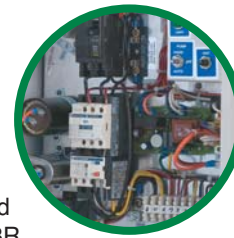
**Novus 4000 Controller Unit
Simplex, Duplex, or Triplex**



Custom Pump Controls



The HYDROMATIC NOVUS 1000 Series panels are designed for simplicity and engineered for quality, yet are inexpensive. Featuring basic relay logic controls, the panels are built for durability. Available in simplex and duplex, the panels are UL Listed 508A, with 698A as an option. The NOVUS 1000 Series comes standard in a NEMA 3R painted steel enclosure with other enclosure options available. Panels are available within two weeks but expedited orders are also possible.



Available in simplex and duplex single phase to three phase, the Novus 1000 Plus Series is an innovative approach for Hydromatic 2HP grinder packages. This series offers an exclusive control circuit board conveniently located on the sub-door. In addition, using a standard sub-door and raised back panel, the Novus 1000 Plus Series houses practical features such as circuit breakers, start components, contactors and a terminal strip. Standard features include lockable latches, a flashing red alarm light with an electronic horn, the innovative touch to silence pad, and a control circuit board, all in a NEMA 4X enclosure.



Available in simplex and duplex, the HYDROMATIC NOVUS 2000 Series features a float switch activation based controller in a NEMA 3R painted steel enclosure. With sensor inputs for seal fail and over temperature, the controller connects to three (for simplex) or four (for duplex) float switches to measure the tank level. In addition, outputs are included to control the pump(s), a high alarm light, seal fail light(s), over temperature light(s) and an alarm horn. The high-tech controller has a built-in HOA (hand-off-automatic) switch and pump running light(s). Plug-in terminal strips make replacement in the field quick and easy. Field expertise is minimized and troubleshooting is simplified using the NOVUS controller unit.



The following features are integrated into the state-of-the-art circuit board:

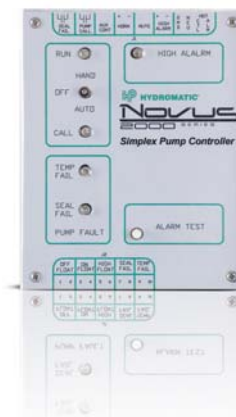
- Standard flashing high intensity LED alarm lights – bulbs never need replacement
- Pump call to run light(s)
- Verified pump run light(s)
- Over temperature and seal fail light(s)
- Hand-off-auto switch(s)
- High level alarm light
- Alarm test features
- Alternation selector switch (duplex version)
- Built-in delay for pump starts and stops (duplex version)

Advantages of this series include:

- The most features available for the money
- Competitive cost
- Size of enclosure required is reduced
- Field replaceable controller (two plug-in terminal blocks)
- Minimization of field expertise and simplification of troubleshooting

Novus 2000 Simplex Controller Unit

Novus 2000 Duplex Controller Unit



Custom Pump Controls

NOVUS 3000 SERIES

Available only in duplex, the HYDROMATIC NOVUS 3000 Series features a float switch activated controller unit for use by wastewater lift stations with dual pumps. The controller utilizes numerous indicator lights and external relay outputs to indicate possible errors in the lift station. This enables operators to take a proactive approach in managing lift stations.

In addition to inputs from five normally open float switches, the HYDROMATIC NOVUS 3000 Series has sensor inputs for seal fail and over temperature from submersible pumps. The controller includes float simulate push buttons on each of the float inputs as well as a corresponding illuminated indicator. Both high and low level alarms are provided with a separate indicator light for each. Built-in alternation with a three position switch allows the controller to select automatic alternation or if the alternation is off to select between pump 1 and pump 2. Disable inputs for each pump can be used for SCADA, etc. The controller provides built-in support for an alarm horn with inputs for an external silence button. Another great feature is the float out of order detection with indicator light.



**Novus 3000 Duplex
Controller Unit**

NOVUS 4000 SERIES

The HYDROMATIC NOVUS 4000 Series can be configured for many applications via the easy to operate front panel user interface. The controller units are designed to control up to three pumps in either pump up or pump down applications. The controller sequences pumps on and off in response to changes in level, pressure or flow. The primary sensor input is a 4-20 mA current loop that can be connected to any sensor with a 4-20 mA output. When used to control level in a tank or well, the input is usually connected to a pressure transducer or ultrasonic transmitter. A 4-20 mA loop power supply for the transducer is also provided. Field replacement is easy because terminal blocks unplug from the controller unit with no wires needing disconnected. Field expertise is minimized and troubleshooting is simplified using the NOVUS controller unit.

- Built-in software requires no programming.
- Simple menu structure allows easy display and modification of set points and setup configuration.
- 32 character alphanumeric liquid crystal displays information for level, status, and set point.
- Built-in elapsed time meters for all pumps are nonvolatile and easily examined from the front panel.
- Alternation selector switch on front panel turns alternation on and selects the lead pump if alternation is off.
- Individually selectable on/off set points provided for up to three pumps.
- 4-20 mA main sensors input with loop power supply for easy connection to most transducers and transmitters with adjustments provided for both scale and offset.
- All inputs operate on 115VAC and are internally fused and transient protected.
- Inputs provided for pump seal leak and over temperature sensors with red fail lights for out of specification conditions.
- Three auxiliary inputs can provide pump disable or pump run confirmation inputs for a fail to start test.

- Built-in single float backup system provided for pump down applications.
- Fully scalable 4-20 mA level output transmitter.
- Relay outputs provided for both high and low level alarms with adjustable set points.
- Built-in horn relay has internal silence button and input for external silence button.
- All terminal strips unplug without removing the wires for easy field replacement.



**Novus 4000 Controller Unit
Simplex, Duplex, or Triplex**

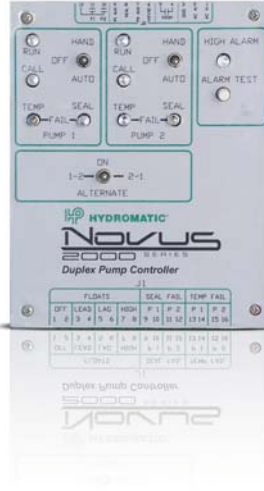
**The HYDROMATIC NOVUS 4000 Series
options are limitless...**



Novus 2000 Simplex Controller Unit



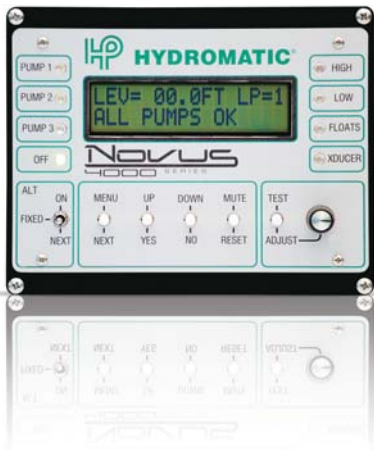
Novus 2000 Duplex Controller Unit



Novus 3000 Duplex Controller Unit



Novus 4000 Controller Unit Simplex, Duplex, or Triplex



The HYDROMATIC NOVOUS Series is the total solution for custom controls for wastewater lift stations. High-tech features are coupled with unlimited options, competitive pricing, quick delivery, dependable customer service, and an extended warranty for both the controls and the pump. Come back to Hydromatic for custom controls, superior quality products and extraordinary customer service.



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