

# Aquavar®

INTELLIGENT PUMP CONTROLLER



# Intelligent Variable Speed Control - Aquavar®

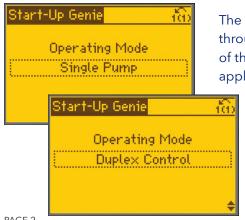
#### Introduction

The **Aquavar**\* Intelligent Pump Controller from CentriPro utilizes an all new Aquavar platform, and combines it with over 20 years of variable speed pumping experience. The Aquavar is designed to provide variable frequency pumping control of speed, pressure, flow and level over a wide range of submersible and above ground applications. Here are just a few of the features and benefits of this versatile product:



- Removable, graphical control panel with display
- Fully backlit display with large text makes the control pad easy to read
- My Personal Menu allows user to focus on specific user selected and saved parameters
- Alarm Log key for quick access to last 5 alarms and maintenance events
- Hand on, Auto on, and Off buttons for easy pump operation at the keypad
  No toggling between local and remote operation
- Modbus® RTU, included in standard drive Other communications available with option cards
- Capable of controlling up to 2 fixed speed pumps, with one standard drive
- Duplex variable speed pumping control with auto lead/lag and alternate
- USB Connectivity Remotely commission and monitor through PC software
- Standard dual DC-link reactors Reduces the level of harmonics similar to a 5% AC line reactor without the voltage drop across the full load range
- EMC/RFI filters designed to reduce drive noise emissions and interference to strict standards

# Your wish is Aquavar's command!



The proprietary CentriPro Start-Up Genie guides you through quick and easy commissioning. Take advantage of the complete Genie with 10 sections to configure applications with pump protections, I/O options, and

Duplex operation, or for the more straightforward applications just set your motor information, operation mode and "Autoset" the rest of the parameters. With support for the most common control configurations, the Genie reduces set-up and configuration time to about 15 minutes!



### **MORE Enclosures!**

With native enclosures for IP20, TYPE 1, 12, 3R, and 4X, Aquavar can provide the right protection for your indoor or outdoor application. Choose TYPE 1 and TYPE 12 for indoor applications where you need protection from dust. Choose the rugged TYPE 3R to protect from rain and snow, or TYPE 4X for corrosion protection. Xylem can also provide an IP20 Aquavar for mounting into a separate enclosure with other equipment.

## **MORE Communications!**

Modbus® RTU is the standard communication protocol on the Aquavar via the RS485 serial port. Using the communication option cards you can expand the Aquavar capabilities to include: Modbus® TCP, Profibus, Profinet, DeviceNet, Lon Works, and Ethernet IP.



# **MORE Pumping!**

For applications with large ranges of flow, or if you just want an inline spare the Aquavar has you covered. Aquavar has the ability to run two additional constant speed pumps to increase your flow to maintain a constant pressure. The Duplex configuration gives you two variable speed pumps working synchronously to provide more efficient operation. Program Aquavar for Duty Standby and you can run one pump at a time, and have your spare pump ready for action!



**MORE Intelligence!** 

The capabilities of Aquavar can be extended with the use of I/O expansion cards available to ship with the drive as a factory option, or as repair parts that can be installed in the field. Additional analog and digital inputs/outputs allow for customized control of your system. The addition of temperature monitoring can help with preventative maintenance and reduce downtime!



## **Specifications**

#### 

- IP20 Open, TYPE 1, TYPE 12, TYPE 3R (Outdoor), and TYPE 4X (Outdoor)
- 1.5 125 HP (frame A C) wall or motor mounted
- Ambient temperature  $14^{\circ}$  F  $113^{\circ}$  F (- $10^{\circ}$ C  $45^{\circ}$ C). Higher temperatures can be achieved by derating the output amperage of the drive 10% for up to  $122^{\circ}$  F ( $50^{\circ}$ C).
- At altitudes from 0 to 1000 meters (0 to 3300 feet) nameplate rated current is available. Derate for altitudes above 1000 (3300 feet) with a maximum operating altitude of 3000 meters (9900 feet). (Consult factory for applications above 3000 meters (9900 feet)).
- Relative humidity lower than 95% without condensation

#### **Electrical Characteristics**

INPUT POWER

 $-3 \text{ phase } 380 \text{ V to } 480 \text{ V} \pm 10\%$ 

-1 phase 200 V to 240 V  $\pm 10\%$ 

-3 phase 200 V to 240 V  $\pm 10\%$ 

- 3 phase 525 V to 600 V ±10%

- Frequency 50 or 60 Hz, ±2Hz

**OUTPUT POWER** - 3 phase from 0 to Vsupply





Xylem Inc. 2881 East Bayard Street Ext., Suite A Seneca Falls, NY 13148 Phone: (800) 453-6777 Fax: (888) 322-5877 www.centripro.com

CentriPro and Aquavar are trademarks of Xylem Inc. or one of its subsidiaries. © 2014 Xylem Inc. BRAQIPC R2 October 2014