

Specifications Sheet – ULTIMA series Controllers

ULTIMA controller provides the ultimate in ease and control right at your fingertips, with a state of art 7” touch screen and incorporating elegant styling and cutting edge display



These controllers work with Aquarius Technologies peristaltic pumps or other brands via supply of power to the designated output which is provided through weather proof power points inside the controller box. ULTIMA is also designed to be used with erosion feeders for BCDMH type products, using ORP to control various size solenoid outputs to suit the flow requirements.

ULTIMA may also be used to build customised dosing packages

Models where Oxidizing and Non-Oxidizing biocides are used with optional pH control				
Detail Specification	ULTIMA	ULTIMA2P	ULTIMA2P2S	ULTIMA3P
Bleed solenoid	1.5m cable only	15 mm	15 mm	15 mm
Inhibitor pump	Optional	1.0 L/hr	1.0 L/hr	1.0 L/hr
ORP pump	Optional	-	-	3 L/hr
BCD solenoid cable	Optional	2.5m	1.5m	-
BCDMH Solenoid	Optional	Optional	15mm	-
Sec. Biocide pump	Optional	3.0 L/hr	3.0 L/hr	3.0 L/hr
pH pump	Optional	Optional	Optional	Optional
Dispersant pump	Optional	Optional	Optional	Optional
ORP-B (LBR) pump	Optional	Optional	Optional	Optional
pH-B pump	Optional	Optional	Optional	Optional
Manifold on backboard	Optional	Included	Included	Included
Sensors Fitted	Flow/Conductivity/Temperature & pH/ORP/Ground Reference Probes			
Additional sensors	Tank Level Indicators to indicate the remaining chemical in the tanks			
Screen Protector	A heavy duty Autotext XE screen protector protects the 7” touch screen to prevent ingress of water and chemicals. Autotex XE contains a UV absorbing chemical which dramatically increases its resistance to yellowing and premature embrittlement in outdoor applications.			
Shipping Dim. & Weight	54cm x 36cm x 21cm and cubic weight is 15kgs			
Communications Port	2x USB ports for use with WIFI or Ethernet, or for importing/exporting settings/data			
Electrical Supply	230VAC +10%/-6% 10Amp continuously powered “clean” mains supply – Standard outputs can pull a combined total of 5A.			
Alarms - User Defined Alarms - No-volt Contact	All controlled probes are associated with alarms. An alarm will be triggered when the value exceeds the customizable range from the setpoint. An active alarm will be displayed on the screen and trigger the common-alarm relay, as well as send an email or SMS alarm for web-enabled models. A no-voltage common alarm relay is incorporated in all controllers for DDC operation.			
Data Logging	1 minute data logging of all readings and outputs is standard. The controller memory can log more than 6 months of data, which can be exported to a USB memory device as CSV files or viewed on Aquareporter as graphs. All calibration data is also stored for troubleshooting.			
Settings	All settings can be downloaded to a USB memory device and uploaded to another controller if they use similar settings, or stored on a computer for archiving.			
Password	Three levels of access is provided to the ULTIMA controllers using one password. This includes "Unlocked", "Read Only" and "Locked" access. "Locked" mode requires a password if enabled. If "Read Only" mode is enabled, it will allow viewing all data and settings and calibrating the controller without a password.			
Manifold Ratings Press. & Temp. rating Flow rate required Plumbing	Manifolds are designed from uPVC and rated to 700 kPa at 50 °C. A minimum flow rate of 12 L/min is required to activate the flow sensor Plumbing inlet & outlets are 20mm BSP fem. Threads or can be fitted with 19mm hosetails			

7 day timers	All outputs can be controlled by independent timers, to operate on an individual day, or selected days of the week, on a 4-week basis. Accessory timers using “Before”, “With” and “After” functions provide a variety of lockout or run facilities which can be programmed to operate in conjunction with each individual timer. Pre-set safety limits protect the system against high TDS, water waste, High ORP, High pH, Low pH as a result of incorrectly set accessory timers.
Inhibitor Dosing	Inhibitor can be dosed according to impulse from water metering. Water Meter input is already available. Other modes include Bleed, Continuous or Flow.

Pumps Models	
Peristaltic	Available in 1 & 3 L/hr @ 300kPa. These pumps are specially designed to be used with APL control
High Pressure Pumps	Available in 2, 5, 10 & 20 L/hr with variable control.

Module Designation	pH	ORP mV	Conductivity µS/cm	Temperature °C	Level Indicators
Operating Range	2 – 12	0 – 999	0 – 99,999	0 – 100	
Resolution	0.01	1	1	0.1	
Alarm Range	+/- 0 – 3.5	+/- 0 – 400	+/- 200 – 1,000	N/A	
Dead Band	N/A	N/A	50	N/A	
Control Type	APL	APL	On/Off	N/A	
Sensor Press. Rating- kPa	700	700	700	700	
Sensor Temp. Rating- °C	60	60	60	60	

Accessories to Complete and Maintain the System	
Bleed Solenoid	Standard Bleed Solenoid 15mm comes standard with controller. Options of 20mm, 25mm, 40mm & 50mm are available
BCD Solenoid Kits	Options of 15mm, 20mm or 25mm with non-return valve are offered to suit your BCD size
BCD Feeders	BCD Feeders are available in 13kgs, 33kgs and 100kgs models
Power points	4 sockets are included in the controller box to plug the pumps in
Extended Solenoid Cable	240 VAC extension cable of 2.5 m for remote bleed solenoids
Water Meter	An impulse water meter that provides pulses proportional to flow. This is to allow Inhibitor dosage in proportion to system make-up rate
Tank Alarm	To provide warning when chemical tank is near empty. Alarm can also be sent via SMS when Communications Bundle is installed
Tank Level Indicators	To provide information on the amount of chemical remaining in the tanks, input ports for up to 5 chemical tank indicators are available.

Optional Communications Package to Enhance the System	
Communications Bundle	3G modem, Wi-Fi and Ethernet to enable remote access to the controller to see live data, change settings, receive alarms via SMS or e-mail, see and download trend charts ...
AquaReporter	AquaReporter website is designed for remote access to the controllers. Settings and Data can be viewed/changed as if you were at the controller.
4-20mA Analogue Input	Accepts a 4-20mA signal from an external device. Data can be calibrated to a meaningful number and is displayed on the Ultima and data logged. If desired, an output can be controlled and an alarm can also be activated.