AQLink A1

Quick Start Guide

Precaution – Controller Installation

- Please install the controller **AWAY from wet, high humidity and hot environment**, excessive humidity and high temperature operating environment may

DEMAGE THE CONTROLLER PERMANENTLY

- Please install in an environment with good ventilation. This is to allow the internal electronics working at desired temperature and operating environment, or else product durability will be affected. Active ventilation is required when operating temperature is high

Features

- Direct drive Jebao/Jecod DCT/DCS/DCP-series pumps, CP series cross-flow pumps and compatible 3 phases pump/wave makers
- High performance fast response with sinusoidal current drive, offer minimized rotor vibration and extra quiet operation
- Pump Selection : Up to 32 preset pump parameters
- Control Input : On-board RJ45 socket, using one analog channel can control rotational speed, two analog channel can control clockwise and counter-clockwise direction
- Continuous firmware upgrade to support new pumps, please contact your sales for arrangement

Specification

- DC IN : 12 – 24VDC adapter or Pump Extender, current up to 4A
- CONTROL VOLTAGE: 0 – 10VDC, 2 channels via RJ45 8P connection
- PUMP OUTPUT : 24V 3 phases BLDC pump and wave maker
- Size and weight : Typical 10cm x 10cm x 2.7cm (W*L*H), 150g

Packing List

- AQLink A1 main unit
- Quick Start Guide (this document)

Quick Start

1. Setting of Programming Switch : On the side of the main unit there is a programming switch (Fig.1) with 5 slide levers, please refer to Fig.4, find your pump's model and set the slide levers accordingly. Please visit www.coral-box.com for latest support list

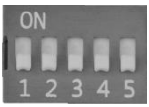


Fig.1 Programming Switch

2. Connection to Variable Speed Control Unit : Use a RJ45 cable to connect to the main unit's RJ45 8P socket. The pin definition of the RJ45 socket is as on Fig.2. They are 0 – 10VDC input, applying voltage out of this range will damage the unit permanently. CH1 1 – 10V corresponding to 10 – 100%, and CH2 having no connection or lesser than 2VDC , the pump will be in default/clockwise direction, else if voltage of more than 8VDC, the pump will rotates reversely

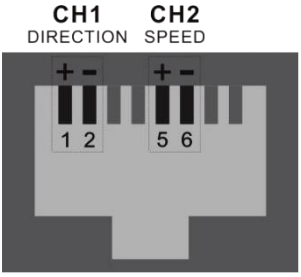


Fig.2 RJ45 Socket

3. Connection to Your Aquarium Pump : As on Fig.3, connect your pump to the AQLink A1 "PUMP" cable

4. Connection to Power Supply : Power off your original pump / wave maker DC adapter, and then connect to AQLink A1 DC jack input, the jack polarity is as below :

5. Finally, switch on the input power of the DC adapter, the green LED will light up indicating the unit start to operate normally

Fig.3 Pump and Power

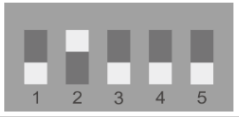
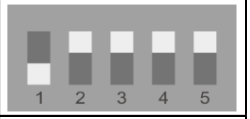
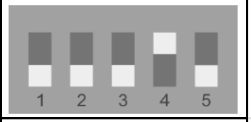
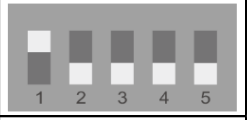
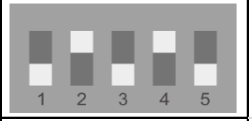
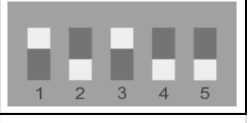
1	DCS-2000		8	DCT-15000		15	RESERVED	
2	DCS/DCT-3000		9	DCP-3000		16	CP-25	
3	DCS/DCT-4000		10	DCP-4000		17	CP-40	
4	DCS/DCT-6000		11	DCP-5000		18	Q-9	
5	DCS-7000		12	DCP-6500		19	Q-16	
6	DCS-9000		13	DCP-8000		20	GF-150	
7	DCS/DCT-12000		14	DCP-10000				

Fig.4 Programming Switch Setting for Supported Pumps