DCC-2

Dual System Control Adapter

The TrolMaster DCC-2 can connect up to two controllers, providing a simple solution for controlling a single device with multiple conditions. The DCC-2 enables users to address the same DS module with two distinct conditions to operate with Hydro-X and Carbon-X controllers simultaneously.

The DCC-2 is designed to be used in combination with one of TrolMaster's plug-in style modules. (DSC-1, DSH-1/2, DST-1/2 , DSP-1, DSD-1, DSV-1). Once connected to the plug-in module using the RJ12 cable built into the DCC-2, the DCC-2 will act in concert with that plug-in module to both 2 controllers, whatever device is connected to the plug-in module.

Note: When connected, the DCC-2 overrides the original condition of the assigned module. If a DSH-1 humidity module is linked, its humidity hardware preset is replaced by the new function assigned through the DCC-2.

Operation Instructions

Name	Press Duration	Result
Mode/Reset	[Mode] - Quick Press	Select and register the DCC-2 as a (DST), (DSH), (DSC), or (DSP) module
	[Reset] - Hold 3 Seconds	Reset the DCC-2. Remove its connection from the controller (Except for HCS-2/NFS-2). [Can also be reset in the controller's menu]
Add/Interlock	[Add] - Quick Press	Address and register the DCC-2 to the controller
	[Interlock] - Hold 3 Seconds	Change the Interlock status ON/OFF.

Interlock

The **DCC-2** interlock function determines how both controllers interact when controlling the shared device. The behavior depends on whether the modules are used in **series** or **parallel** configurations.

Interlock Condition	ON	OFF
Functionality	All conditions linked to a pair of modules **must be met simultaneously** for the device to activate. (Series Configuration)	Any one condition linked to a pair of modules **can independently activate** the device. (Parallel Configuration)
Examples	● **[DSC & DSH]** - Turn on an exhaust fan only when BOTH CO2 and humidity exceed setpoints. ● **[DSC & DSP]** - Turn on the exhaust fan for CO2 regulation in the specific cycle by timer schedule.	● **[DSC or DSH]** - Turn on an exhaust fan to reduce CO2 OR humidity. ● **[DSC or DSP]** - Turn on an exhaust fan EITHER when CO2 is too high OR based on a night-time recycling timer.

Scenario

The **DCC-2** is capable of managing interlock settings dynamically between both controllers. In more complex situations.

1. Connection Example & Result

- An exhaust fan is plugged into the temperature device station **(DST-1)**
- DST-1 is powered and integrated with the **DCC-2**
- **DCC-2 Section A:** Linked to **Hydro-X** as a **timer control device (DSP)**
- **DCC-2 Section B:** Linked to **Carbon-X** for CO2 control **(DSC)**

Result: The **temperature hardware preset** of the DST-1 **is replaced**; this module now responds with a **timer schedule** (Hydro-X) and **CO2 levels** (Carbon-X).

2. Operational Use Case

- **Section A (Hydro-X):** Assigned a night-time exhaust timer, exhaust CO2 during the night cycle.
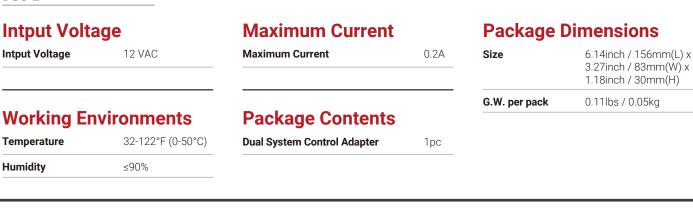- **Section B (Carbon-X):** Assigned to turn on the fan when CO2 exceeds safety levels.

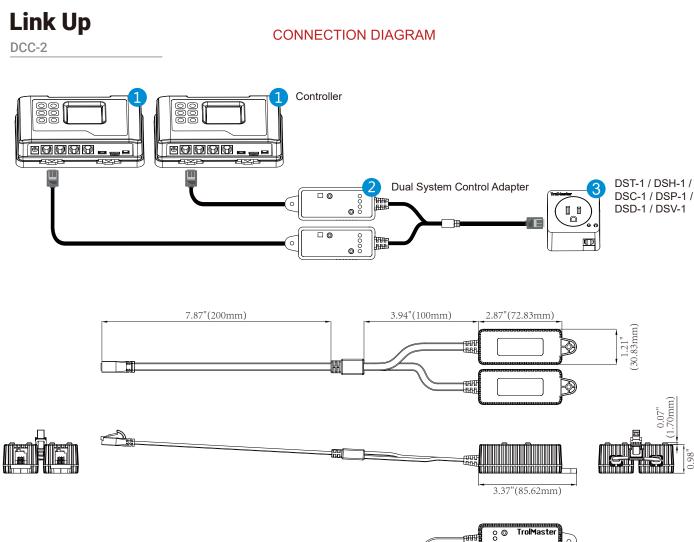**3. Interlock Logic in Action**

Note: When toggling the Interlock status ON/OFF in either Section A/B, both sections will turn on/off **simultaneously.**

- **Interlock ON:** Fan turns on only when both CO2 exceed the threshold and the scheduled timer is active.
  Interlock OFF: Fan turns on if either CO2 exceeds the safety threshold or the timer is active.

This dual functionality ensures optimal environmental control by allowing flexibility and maximizing equipment efficiency by eliminating redundancy.

Specifications

DCC-2

Intput Voltage
Intput Voltage	12 VAC

Maximum Current
Maximum Current	0.2A

Package Dimensions
Size	6.14inch / 156mm(L) x 3.27inch / 83mm(W) x 1.18inch / 30mm(H)
G.W. per pack	0.11lbs / 0.05kg

Working Environments
Temperature	32-122°F (0-50°C)
Humidity	≤90%

Package Contents
Dual System Control Adapter	1pc

Link Up

DCC-2

CONNECTION DIAGRAM

① Controller
② Dual System Control Adapter
③ DST-1 / DSH-1 / DSC-1 / DSP-1 / DSD-1 / DSV-1

7.87"(200mm) 3.94"(100mm) 2.87"(72.83mm) 1.21"(30.83mm)

0.07"(1.70mm) 0.98"(25mm)

3.37"(85.62mm)

FC RoHS

TrolMaster