

Magnum Pro 2000 ***DMX Interface***

510211

INTRODUCTION

The DMX Interface for the Magnum Pro 2000 smoke machine allows you to activate smoke emission and adjust the output level via a standard DMX 512 controller. Only one DMX channel is required and power to the interface is supplied by the Magnum Pro 2000, thus no external power connection is necessary.

This note is no substitute for the existing Magnum Pro 2000 manual and you should consult this before operating the machine.

INSERTING THE INTERFACE

Remove the existing remote control from the back of the machine, plug in the DMX Interface and tighten the two finger screws.

CLEARING THE MEMORY TIMER

If you have used the Magnum Pro 2000 with the standard remote control unit, you may have stored a timer cycle in the memory. You can clear the memory of the timer by setting all 10 DIP-switches on the interface OFF, and then apply power to the Magnum Pro 2000 for at least 5 seconds.

CONNECTING TO THE DMX DATA LINK

The DMX Interface has two XLR connectors - one for DMX input and another for DMX output. The interface is connected to your DMX link like any other DMX device. First, connect the output of the controller, or any other device on the link, to the DMX input on the interface. Then, connect the DMX output of the interface to the following DMX unit on the link or terminate by inserting a XLR male connector with a 120 Ohm resistor between pin 2 and 3 (Martin part# 309950).

NOTE: The 3 pin XLR input/output uses pin 2 as hot (+) and pin 3 as cold (-). If required, you can swap hot and cold inside the interface. To do this, remove the front plate from the interface. You will then see two jumpers on the PCB. The two jumpers can either be mounted so pin 2 is hot and pin 3 is cold, or pin 2 is cold and pin 3 is hot. Remove the jumpers and set them according to the configuration you wish. On the front plate of the DMX interface there is a square field to mark if the signal is reversed. Use this to avoid any confusion.

SETTING THE ADDRESS

You will have to set the DIP-switch to the DMX channel to which you want the Magnum Pro 2000 to respond to the DMX controller. A DIP-switch that is ON assigns the value printed right below the switch. DIP-switches that are off assign the value 0. The DMX address is the sum of all 10 switches.

OPERATION

As soon as you apply power to the Magnum Pro 2000, it will start heating. It takes approximately 10 minutes before the temperature of the heating element reaches operation level, which is indicated by the green 'Ready' LED on the back of the machine.

You can now start operating the Magnum Pro 2000. The red LED to the right of the DIP-switch will indicate that the interface is receiving DMX signals. The functions of the Magnum Pro 2000 are described by the DMX protocol listed below.

DMX Value	Function
0 - 20	No smoke emission
	Smoke emission
21 - 42	Level 1
43 - 64	Level 2
65 - 86	Level 3
87 - 108	Level 4
109 - 130	Level 5
131 - 152	Level 6
153 - 174	Level 7
175 - 186	Level 8
197 - 218	Level 9
219 - 240	Level 10
241 - 255	Level 11