Quick Start

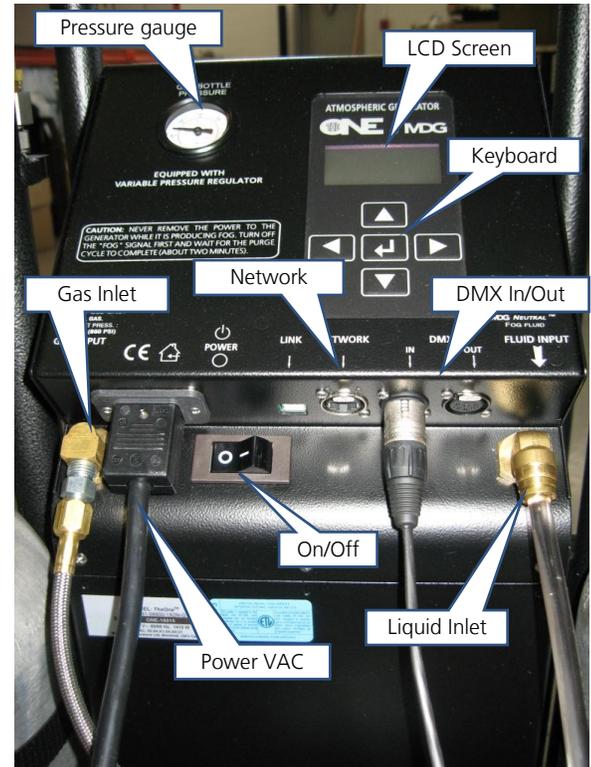**theONE**
ATMOSPHERIC GENERATOR

Installation

- Connect the gas inlet to a gas bottle via a flexible braided hose.

  The gas inlet is a 1/4" male JIC 37° flare fitting.

- Connect the fog fluid container to the fluid inlet via a 3/8" plastic tube.

  Open the vent on the container.

  Leave the reservoir as close as possible to the MDG **theONE.**

- Connect the data wiring if necessary.

  Male XLR-5 connector for DMX (DMX512-A protocol) and RDM (ANSI E1.20 protocol).

  Male RJ45 connector for network(ArtNet, Pathport Protocol, Strand Shownet, ETC Net2 eDMX, Streaming ACN, ETC Net3).

- Connect the power cord (100–250 VAC, 50/60 Hz, 1480 W).

- Open the gas bottle and check the gauge, on top of the generator, to make sure there is enough pressure

  MIN: 690 kPa (6.9 bar) / 100 psi, MAX: 17 MPa (172 bar) / 2500 psi.

*The MDG **theONE** is ready to be powered on.*

NOTE: At start-up, the MDG theONE tries to fill the internal reservoir. If there is not enough fog fluid, the generator will not operate.

Working with the keyboard (LOCAL Mode)

- Verify the communication mode in the «INTERFACE ▶ COMM.». When the «AUTO» mode is activated, the MDG **theONE** is then controlled by DMX, if there is a signal. If the DMX wire is unplugged, the control remains local.

- When the generator is manually switched to **«UNIT ON»** mode («CONTROL ▶ UNIT ▶ ON»), the program starts the heating cycle («STATUS ▶ STATE = UNIT ON») for approximately 8 minutes.

  When the temperature reaches operating level («STATUS ▶ STATE = READY»), the Automatic Purging System™ (APS™) will be initiated («STATUS ▶ STATE = PURGE»). After the first purging cycle is completed (20 to 60 sec.), the generator is ready to produce fog («STATUS ▶ STATE = READY»).

- The Fog / Haze mode is controlled by the menu («CONTROL ▶ MODE»).

  Choosing «HAZE» switch the MDG **theONE** in a *Haze mode*, while «FOG» will switch the MDG **theONE** in a *Fog mode*.

  Fog / haze emission can be controlled by adjusting the working pressure of the internal reservoir («CONTROL ▶ PRES. HAZ» or «CONTROL ▶ PRES. FOG»).

- To produce Fog / Haze switch the generator to **«FOG ON»** mode («CONTROL ▶ FOG ▶ ON»).

  Depending of the mode choice («CONTROL ▶ MODE», or see «STATE ▶ MODE»), the MDG **theONE** will start to produce a haze (HAZE mode) or a fog (FOG mode), with an internal pressure defined by the working mode pressure.

The MDG **theONE** will produce fog as long as the control parameters are within specifications, the liquid reservoir filled and the gas bottles pressurized.

If a critical problem occurs, the fog generator automatically shuts down, and displays an error message in the **Status Menu** while the LDC Screen will flash**.**

Working with DMX/RDM Control (DMX Mode)

- Connect a DMX line to DMX In connector (Male XLR-5 connector).
- Select the communication mode in the «INTERFACE ▶ COMM. ». When the «AUTO» mode is activated, the MDG **theONE** is then controlled by DMX, if there is a signal.
- Set the DMX Start Address in the Interface Menu («INTERFACE ▶ COMM. ▶ DMX ADDR»), and choose any value between 1 and 508 (508+5 = 512, last DMX channel).
  The DMX Start Address can be reassigned via a RDM control.

The Interface uses five (5) DMX channels:

Channel 1	**0 (0%)** < UNIT OFF ≤ **128 (50%)** < UNIT ON ≤ **255 (100%)**
Channel 2	**0 (0%)** < MODE HAZE ≤ **128 (50%)** < MODE FOG ≤ **255 (100%)**
Channel 3	**0 (0%) – 255 (100%)**, FOG OUTPUT (from minimum to maximum pressure)
Channel 4	**0 (0%)** < FOG OFF ≤ **128 (50%)** < FOG ON ≤ **255 (100%)**
Channel 5	**0 (0%) – 255 (100%)**, EXTERNAL FAN (from minimum to maximum speed)

Working with Network Control (Network Mode)

The network interface, developed by **Pathway Connectivity Solutions**, supports all major Ethernet protocols. If you don't have a control program, install **Pathport Manager** (5 or above) by downloading the latest build from **www.pathwayconnect.com**.

- Reset the IP address on your computer to 10.0.0.1 with a subnet mask of **255.0.0.0**. If the computer uses a wireless card, disable it and turn the transmitter off.
- Connect to the **MDG theONE** via an Ethernet switch, using a standard Ethernet cable.
- Switch the control mode to Ethernet («INTERFACE ▶ COMM. ▶ ETHERNET»).
- Start **Pathport Manager** 5 by clicking on «PathportManager5.jar».

The important properties are:

- Node Properties

  Embedded RDM ID is the RMD device ID. If this ID is different to the ID of the MDG theONE, the Generator Status field will display « OFFLINE». Modify this field to match both devices ID.

  Generator Status is a summary of the status of the fog generator, including the fail status.

- Port Properties

  The Universe Name can be assigned in the field **Patch Name.**

  The **Universe Number** cannot be changed in that pane. It must be changed only in DMX Patch.

  The **DMX Start Address** defines the first DMX channel. The user can assign it either on the fog generator or in this pane.

- DMX Patch

  To change **Universe** selects the new Universe.

Press **Send** button when you want to update the MDG theONE

*… For further details, please read the **User Guide**.*