

Operating instructions

Art.Nr. 1800300

V091221

Thermofogger Base classic 2



Scope of Delivery

- 1 Classic²
- 1 5l-Leerkanister
- 1 fuel cap with quick coupling
- 1 fluid hose with quick coupling and grommet
- 1 power cord with TrueOne connector
- 1 tank holder
- 1 instruction manual

Please check the completeness of the delivery

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1. Foreword

The Classic² is a powerful fog machine with classic storage evaporator. The large amount of storage allows large amounts of fog to be generated. The smallest fog clouds can also be generated.

The possible applications are diverse and range from theme parks to fire drills to small and large stages.

The wide range of control options allows it to be used in a wide variety of scenarios.

The machines are designed to create artificial fog.

2. Safety instructions

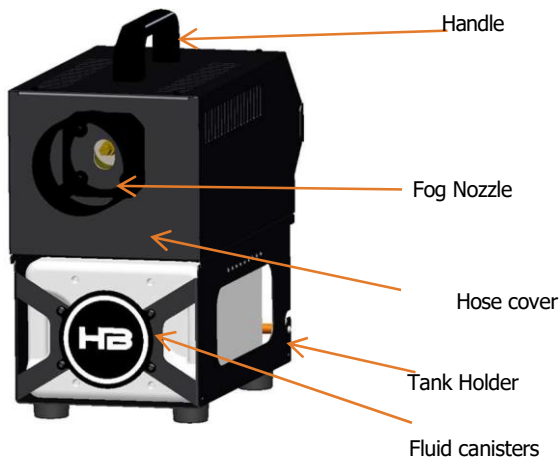
- Very hot steam escapes from the fog outlet opening.
Attention risk of burns !
- During the fog process, very hot fluid droplets can occasionally escape from the fog outlet opening. Therefore, there must be no persons or heat-sensitive objects at a distance of 1.5 m from the mist outlet opening.
- Never handle the fog outlet opening during operation or when activated.
- The appliance must be placed in a place that is not sensitive to heat. Keep a minimum distance of 60 cm from flammable, flammable and heat-sensitive objects.
- The fog fluid used contains a glycol that burns with a slightly bluish, almost invisible flame. Therefore, never fog into strong ignition sources such as open fire.
- Never open the device connected to a power source.
- During operation, isolated leakage of hot fluid droplets is possible. Care should therefore be taken to ensure that they do not become a danger to humans. Keep a safe distance of 3m from the mist outlet nozzle.
- Do not ingest the fog fluid and keep away from children. In case of eye contact, rinse with plenty of water. In case of accidental ingestion, consult a doctor.
- Spilled or splashed fluid can cause a risk of slipping. Pick up fluid and dispose of it as directed.
- Do not let visibility drop below 2m, you are responsible for people moving around in the foggy space.
- The fog generated can trigger smoke detectors.

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The method used here to generate artificial fog is largely harmless and is used worldwide in the entertainment sector. We are not aware of any case in which a healthy person would have been harmed by the use of this artificial fog. **Nevertheless, we recommend that people who are ill or have previous respiratory damage or are prone to allergies avoid contact with artificial fog!**

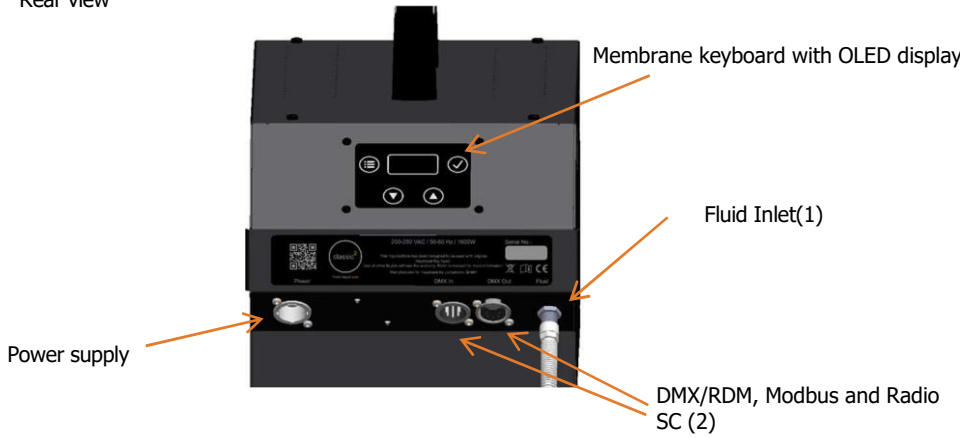
3. Name of parts

Front view



Thermofogger base classic 2

Rear view



4. Preparation

4.1 Selection of the location

The location where the Classic² is operated must be

- have good ventilation, with cold and fog-free air
- to be dry
- Be vibration and vibration free
- consist of a non-flammable footprint
- Be far enough away from highly flammable objects
- Have an ambient temperature between 5°C and 45°C
- have a relative humidity of less than 80%.

4.2 Changing the canister

- Release the plug-in nozzle from the quick coupling by pressing the locking button
- Remove the canister fuse.
- Remove the canister from the tank holder
- Unscrew the fuel cap from the empty canister and screw it onto a new or full canister.
- Slide the canister back into the tank holder.
- Attach the canister safety back to the tank holder
- Insert the nozzle back into the fuel cap.

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4.3 Hose cover

The Classic² is equipped with a hose cover (100mm). Please only use hoses that can handle the temperatures. The hose may only be pushed a maximum of 50 mm onto the adapter, so that the fog nozzle is surrounded with enough fresh and cold air.

To do this, unscrew the nozzle from the front with a 14 mm socket with extension and ratchet. Make sure that the copper sealing ring is still on the nozzle adapter. Now screw the new nozzle onto the nozzle adapter. The nozzle should be screwed down well without overtightening the thread. If there are leaks in the copper sealing ring, tighten the nozzle again. If necessary, they replace the sealing ring when it is worn.

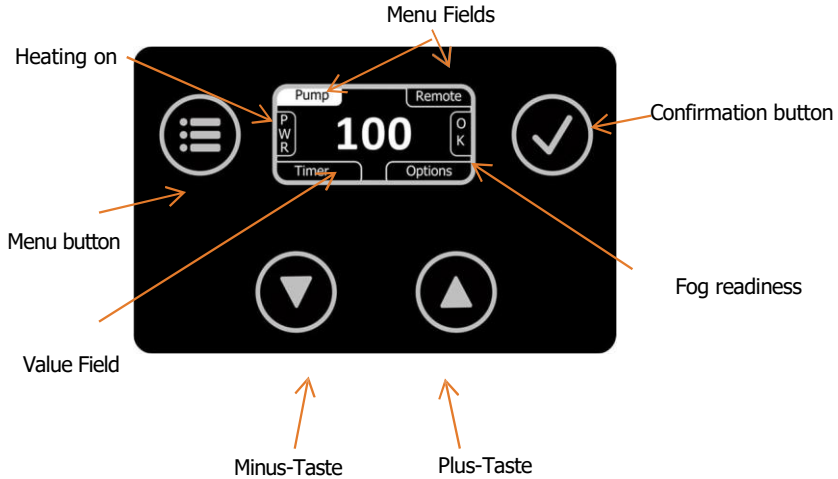
6. Working with the Classic²

The Classic²/Highpower² is a fog machine with a high output. From the small cloud of fog to the dense, room-filling fog, any desired effect can be achieved. The ultra-fine regulation of the pump allows mist output settings between 1% and 100%.

After plugging in the power plug, the machine heats up the heating element. This takes between 8 and 12 minutes, depending on the device.

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6.1 Control panel of the Classic²/Highpower²



The Classic² is operated via the four buttons (menu, minus, plus, confirmation) and the OLED display. In the corners of the display are the menu fields, in the middle is the value field, which shows the value of the selected menu field. The menu button is used to select the individual menus counterclockwise. With the help of the plus and minus buttons, the corresponding value can then be changed and then saved with the confirmation button.

On the left side of the screen, "PWR" indicates whether the heating is active. On the right edge of the screen, "OK" indicates that the machine is ready to fog.

6.2 Operation in stand-alone mode

The simplest case of control is the stand-alone mode. To do this, the pump value is set to the desired value and the confirmation button is pressed. If fog readiness is displayed, the fog process starts immediately.

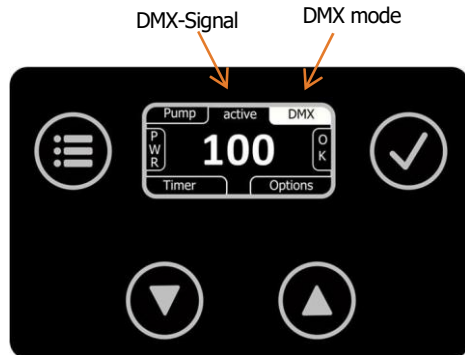
The pump value can also be changed during the fogging process.

Pressing the confirmation button again stops the fogging process again.

6.3 Operation via DMX512/RDM

When operating via DMX512, the XLR input (2) must first be set to DMX (see chapter Options).

As shown, "DMX" appears in the upper right menu field. The DMX address can be changed with the plus and minus keys and must then be saved with the confirmation button.

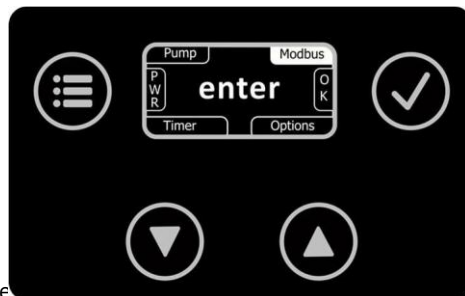


If there is a valid DMX signal, this is indicated with "active" in the top center. The currently read pump value can be displayed by selecting the pump menu item. If the receiving value is greater than zero, the Classic²/Highpower² starts the fogging process and ends it again at the value zero.

Via RDM, the Classic² can be configured (DMX address) as well as readable (error or temperature data). Furthermore, a firmware update can be carried out via this RDM input.

6.4 Operation via Modbus-RTU

When operating via Modbus RTU, the XLR input (2) must first be set to Modbus (see chapter Options). The interface is designed as an RS485 half-duplex connection.



The communication parameters of the "Modbus". First of all, the Modbus menu item must be selected. In the value field, "enter" is displayed. The confirmation button takes you to the submenu for Modbus.

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In the Modbus submenu, the menu fields are replaced. The address of the device can be set in the upper left. At the bottom left, the baud rate of the communication is set, and at the bottom right, the data width, parity, and stop bits. The setting is done in the same way as the main menu.

To exit the submenu, the menu item "exit" must be selected and confirmed with the confirmation button.

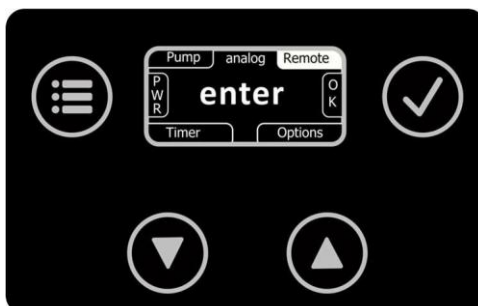
In the appendix you will find the definitions of the registers necessary for programming the PLC.

6.5 Operation via cable remote control (option)

When operating via cable control, the XLR input (2) must first be set to remote control (see chapter Options).

After Plug in of the wired remote control, the Classic²/Highpower² automatically detects that an analogue wired remote control is plugged in

. On the cable remote control there is an on-switch and a potentiometer for setting the pump value.

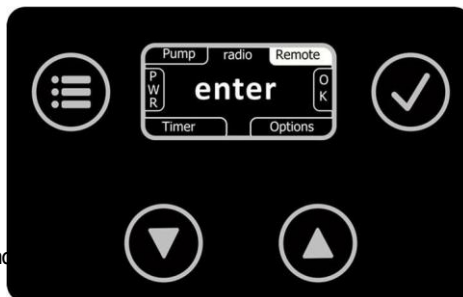


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6.6 Operation via radio remote control (option)

When operating via radio control, the XLR input (2) must first be set to remote (see chapter Options).

After Plug in of the wireless remote control recognizes the Classic²/Highpower² Car matic, that a radio remote control was plugged in.



Up to 60 different handheld transmitters can be taught on the machine. To do this, the "Remote" submenu must first be selected.



In the Remote submenu, the menu fields are replaced. The channel (button on the handheld transmitter) can be selected at the top left. At the bottom left, a new handheld transmitter is taught, and at the bottom right, the learned handheld transmitters are deleted again.

A new handheld transmitter is taught as follows. First, select the add menu item and confirm it with the confirmation button. At the bottom left, "Adding". The machine is now waiting for a valid radio signal. To do this, press any button on the handheld transmitter. The teach-in process is now complete and an "add" appears again at the bottom left. Then you can select the button and save it.

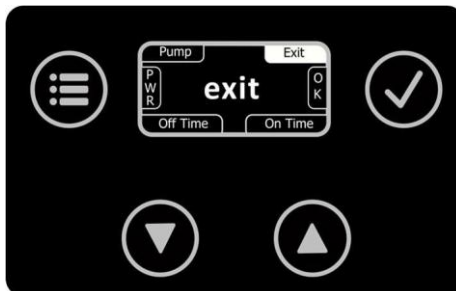
To delete the hand-held transmitters that have already been taught, select the menu item "del" and confirm it. In the bottom right, "deleting" now appears. The deletion process is now underway. The display changes back to "del" after a successful deletion process.

To exit the submenu, select the menu item "exit" and confirm with the confirmation button.

6.7 Operation via the internal timer

To set and activate the internal timer, you first have to switch to the Timer submenu.

Here, too, the menu fields are changed accordingly. In the upper left, the pump value that is used in timer mode can now be set. Bottom left



can change the waiting time in 0.1 minutes (6 sec.) steps. Analogously, the fog time can be set in second increments at the bottom right.

To activate the timer, the confirmation button can be pressed both during the waiting time or the foggy time. The timer will be activated or deactivated. Depending on the selected menu item, the timer starts with the waiting time or the foggy time.

The pump value can still be changed even when the timer is activated.

If the "Timer" submenu is left again, the timer is also deactivated again.

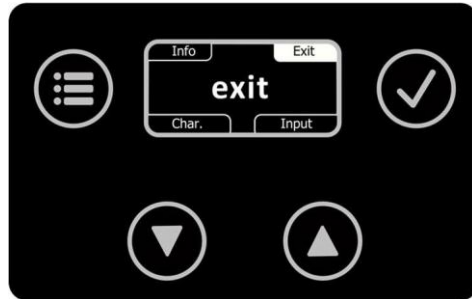
7 Menu item "Options"

In the "options" submenu, both the pump characteristics can be set and the protocol of the XLR sockets can be selected.

7.1 Adjustment of the pump characteristics

After activating the submenus, the menu fields in the corners are changed.

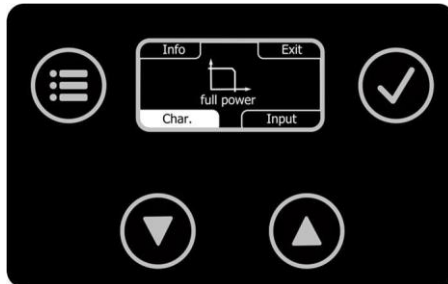
The menu item "Char." now appears at the bottom left and the menu item "Input" at the bottom right.



In the menu item "Char." you can choose between the pump characteristics "full power", "max. time" and "non stop".

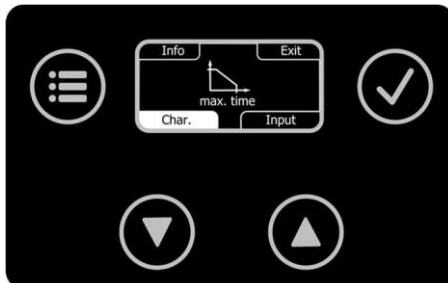
Full power

The pump is not turned down, regardless of the falling temperature in the heating element.



Max. Time

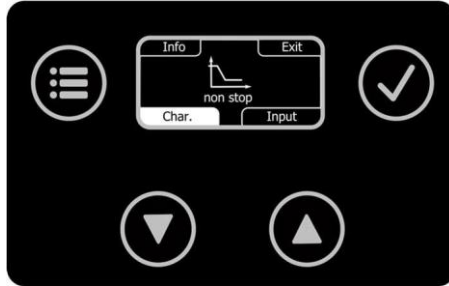
The pump is reduced depending on the temperature in the heating element. This will extend the time of the fogging process. Nevertheless, the pump switches off as soon as the temperature drops below the evaporation temperature.



Non stop

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The pump is regulated down to continuous fog mode.



7.2 Setting the communication protocol of the XLR sockets

In the "Input" menu item, the communication protocol of the XLR sockets can be selected. The following protocols are available here:

- DMX/RDM
- Modbus
- Remote (wired or wireless)

Please select the desired protocol and confirm it with the confirmation button.

8. Care and maintenance

- Avoid running the Classic²/Highpower² without fluid. Otherwise, the pump will run dry.
- Avoid overheating the device due to direct sunlight or direct headlights. The permissible ambient temperature can be found in the technical data.
- Make sure that the machine's air vents are not clogged with dust deposits. If necessary, the ventilation slots must be cleaned.
- Wipe up any leaked fluid immediately.
- Check the suction strainer in the tank from time to time. Clean it or replace it.
- If you use the same fluid canister frequently, you should rinse it thoroughly before each filling with fresh fluid. This will prevent contamination.
- The tank holder can be unscrewed for a permanent installation. **Please note:** The height difference between the external canister and the machine must not exceed 1.5 meters, otherwise the pump will no longer be able to suck in the fluid!)
- If necessary, clean the surface of the appliance with a suitable, solvent-free detergent
- Make sure that there is enough fog-free cooling air around the machine at all times. Otherwise, moisture damage could occur inside the machine.
- **PLEASE NOTE:** The vaporizer of our foggers does NOT need to be cleaned! Cleaning fluids offered on the market can harm the vaporizer! The warranty expires in this case.

9. Troubleshooting

The Classic² does not fog

- Check external control
- Check your power source
- Check the amount of fluid
- Check the connection on the fluid tank for leaks
- Check the suction screen in the tank for contamination
- Check fluid hose and connector for leaks

The Classic² hums loudly in fog

- The pump runs dry. This must be avoided at all costs.
- Refill fluid
- Check the hose and coupling, snap into place again if necessary.

The Classic² shows the error message "machine too hot" in the display

- The temperature inside the device is too high. After cooling, the error expires again.

The Classic² shows the error message "thermocouple broken" in the display

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- One of the thermocouples is broken. The machine shuts down for safety reasons.

10. Technical data

Device type	Evaporator Fog Machine
Performance	230V~, 50 Hz, 3100 W (PowerCON TRUE1)
Heat-up time	approx. 8 min
Fluid consumption	to to 300 ml/min (Full-Power mode, wide jet nozzle), up to 70 ml/min with continuous fog
Tank capacity	5 litres
Operation	1.3" OLED display, membrane keypad
Interfaces	5pol XLR In/Out
Mist nozzles (replaceable)	Wide Jet Nozzle Noise Reducing Nozzle
Fog output	Adjustable 1-100% in 1% increments
Output range	Up to 20 m with wide-jet nozzle Up to 15 m with noise reducing nozzle
Supported protocols	DMX512, RDM, Modbus RTU, JT-Remote
Control	DMX/RDM, wired remote control, radio remote control, integrated timer, stand alone
Accessories (option)	Radio remote control, Wired remote control
Foggy time	up to 20 sec. In full-power mode, up to 50 sec. In full-time mode, continuous fog in non-stop mode

Dimensions (LxWxH)	480 x 212 x 240 mm Tankhalter 388mm)	(Height with
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10.3 Classic² – 115V

Device type	Evaporator Fog Machine
Performance	115V~, 60 Hz, 1700 W (PowerCON TRUE1)
Heat-up time	approx. 12 min
Fluid consumption	to to 240 ml/min (Full-Power Modus), up to 40 ml/min with continuous fog
Tank capacity	5 litres
Operation	1.3" OLED display, membrane keypad
Interfaces	5pol XLR In/Out
Fog output	Adjustable 1-100% in 1% increments
Output range	Up to 15 m
Supported protocols	DMX512, RDM, Modbus RTU, JT-Remote
Control	DMX/RDM, wired remote control, radio remote control, integrated timer, stand alone
Accessories (option)	Radio remote control, Wired remote control
Foggy time	up to 20 sec. In full-power mode, up to 50 sec. In full-time mode, continuous fog in non-stop mode
Dimensions (LxWxH)	480 x 212 x 240 mm (height with Tankhalter 388mm)

11. Warranty Policy

HEYLO provides a warranty for the purchased Classic² fog machine in accordance with the following conditions:

1. We will repair damage or defects in the device free of charge in accordance with the following conditions (Nos. 2 to 6) that are demonstrably due to factory defects, if they are reported to us immediately after discovery and within 24 months of delivery to the end customer. A warranty obligation is not triggered by minor deviations from the target quality, which are irrelevant for the value and usability of the device, by damage caused by the effect of water and, in general, by abnormal environmental conditions or force majeure.
2. The warranty is provided in such a way that defective parts are repaired free of charge or replaced by flawless parts at our discretion. Devices for which warranty service is claimed with reference to this warranty must be handed over to us and sent free of charge.
The proof of purchase with the date of purchase and/or delivery must be presented. Replaced parts become our property.
3. The warranty claim expires if repairs or interventions are carried out by persons who are not authorized by us to do so, or if our devices are equipped with supplements or accessories that are not matched to our devices. Furthermore, the warranty claim expires if a different material than the HEYLO fog fluid was used. When sending the devices to us without

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Prior removal or emptying of the fluid canister also voids the warranty, as well as in the event of proven disregard of the operating instructions or in the event of errors due to improper handling/handling as well as damage caused by violence.

4. We do not grant any performance claims on components or groups of components that are subject to natural wear and tear or normal wear and tear. In particular, all fluid-pumping parts such as pumps and heating elements are considered wear parts. A goodwill settlement is examined on a case-by-case basis.

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5. Warranty services do not have the effect of extending the warranty period, nor do they start a new warranty period. The warranty period for built-in spare parts ends with the warranty period for the entire device.
6. If a damage or defect cannot be remedied by us, or if the rectification is rejected or unreasonably delayed by us, within 6 months from the date of purchase/delivery, at the request of the end customer, either
 - a. replacement delivered free of charge or
 - b. the reduced value is compensated or
 - c. the device was taken back against a refund of the purchase price, but not in excess of the usual market price.
7. Further or other claims, in particular those for compensation for damage caused outside the device, are excluded – unless liability is mandatorily prescribed by law.

1. Appendix

Modbus-Interface

Discrete Inputs

Number	Name	Description
1	Ready	This input is 1 if the machine is ready to produce fog. If an error occurs the Input will be zero.
2	Thermocouple 1 error	This input will be 1 if there is an error in the thermocouple 1 otherwise it will be zero.
3	Thermocouple 2 error	This input will be 1 if there is an error in the thermocouple 2 otherwise it will be zero.
4	Overtemperature	This input will be 1 if the environment temperature is higher than 70°C. Otherwise it will be zero.

Coils

Number	Name	Description
1	Enable	This coil enables the fog output with the amount of fog which is set in holding register 1

Input Registers

Number	Name	Description																																
1	Status	This register is the status register. It is used to inform the application about the state of the machine. <i>Note: The bits contained in this register are the same as the discrete inputs.</i> <table><tr><td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>OVRT</td><td>T2</td><td>T1</td><td>RDY</td></tr></table> Bits 16:4 not used These bits are not used and read as zero Bit 4 OVRT Overtemperature flag This bit is set by the machine if a temperature over 70°C is detected 0: Environment Temperature in range 1: Temperature too high Bit 3 T2 Thermocouple 2 Error flag 0: No Error detected 1: The Thermocouple 2 is broken Bit 2 T1 Thermocouple 1 Error flag 0: No Error detected 1: The Thermocouple 1 is broken Bit 1 RDY Ready flag 0: Machine not ready due to an error 1: Machine ready to produce fog	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	OVRT	T2	T1	RDY
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1																			
-	-	-	-	-	-	-	-	-	-	-	-	OVRT	T2	T1	RDY																			
2	Temperature	This register hold the environment temperature. It is a signed 16-bit number																																

Holding Register

Number	Name	Description
1	Fog	The fog output value: allowed values are from 0 to 255

DO YOU HAVE ANY QUESTIONS? WE ARE HAPPY TO HELP YOU!

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Customer Service – Technical Support and Service

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