Manufacturer:
Fisnar

Product Name:
Fisnar DC100 MAX Digital Dispensing Machine

Manufacturer Part Number:
DC100 MAX

▶ Click here for more details on the Fisnar DC100 MAX Digital Dispensing Machine

DC100 MAX
High Precision
Digital Dispenser
Operating Manual

FISNAR®   *DC100 MAX Digital Dispenser Operating Manual*

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OVERVIEW

Model DC100 MAX Digital Dispenser

The DC100 MAX is a versatile, high precision dispenser designed to achieve exceptional levels of process stability in critical dispense applications: from microdot deposits and precise beads, to potting and encapsulation. The advanced user-friendly dispense software features a wide range of intelligent functions, allowing the user to maximize accuracy, control and monitoring of their dispensing process.
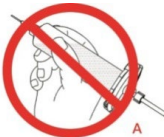
Programmable alarms can be set to notify the user when fluid material life has ended, or when fluctuations in the dispensing pressure have occurred. The sequence function enables the dispense time to be changed at pre-set time intervals or shots. This ensures consistent dispense results from the start to finish of the process, due to fluid viscosity changes or reduction in the syringe fluid level being accounted for.

- Digital dispensing parameters, precision regulator, vacuum control and high flow solenoid ensure high accuracy repeatable dispense results.
- 16 programmable memory slots
- 5 dispense modes (Purge, Teach, Timed, Time+, Cycle)
- Multilingual Display, digitally displaying dispense time, pressure and vacuum
- 13 channel I/O circuit for external program change, dispense actuation, machine status and alarm monitoring & signaling.
- I/O test mode
- Momentary or Latching shot actuation signal
- RS232 port for external control, monitoring and programming of dispense parameters
- Internal pressure and vacuum calibration function
- Operator lockout function prevents dispense programs and functions from being modified
- Pressure and Vacuum alarm for maintaining consistent dispense parameters
- Auto-purge cycle and glue alarm prevents premature curing when dispensing 2K fluid materials
- Option to attach barcode scanner for touch-free program selection and dispense actuation

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SAFETY
General Precautions

⚠️	*Do not operate the machine in excess of its maximum ratings / settings.*
⚠️	*Make sure that the input air supply is clean and dry. A 5 micron air filter/regulator (560567) is recommended to ensure the input air supply is clean and dry.*
⚠️	*If corrosive or flammable fluids are being used, a syringe barrel adapter head assembly with inline filter must be used, to help prevent the fluids from being sucked back into the machine.*
⚠️	*The fluid being dispensed may be toxic and / or hazardous. Refer to the Material Safety Data Sheet for proper handling and safety precautions.*
⚠️	*Do not smoke or use near an open flame when flammable materials are being dispensed.*
⚠️	*Do not expose the machine directly to sunlight.*
⚠️	*Avoid cleaning the machine with aggressive solvents – neutral detergents are preferred.*
⚠️	*Do not overfill the barrel and/or lay the barrel on its side. This will prevent fluids from flowing back into the machine – refer to figures A & B below.*

DC100 MAX Malfunction

⚠️	*If the machine malfunctions, shut down the machine immediately. This can be done by either pressing the power button on the front of the machine or disconnecting the power cord.*
⚠️	*Always use a piston with the barrel to prevent fluids from flowing back into the machine*
⚠️	*When dispensing low viscosity fluids that require the vacuum be aware not to increase to a point where fluids begin to run back into the air line potentially reaching the control box. The vacuum should not be set too high or it will cause material to creep backwards.*

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SAFETY
Inappropriate Use

If the machine is used in a way other than described in this manual, it may cause damage to self or property.

⚠️	*Do not use any components with the machine other than Fisnar authorized components.*
⚠️	*Do not use incompatible materials.*
⚠️	*Do not make any modifications to the machine.* *All repairs must be done using Fisnar specified spare parts.*
⚠️	*Do not operate the machine in excess of its maximum ratings / settings.*

Fire Prevention

Refer to the following instructions to avoid any fire or explosion.

⚠️	*Access your surroundings and the location of the nearest fire extinguisher and Emergency Exit.*
⚠️	*Do not smoke or use near an open flame when flammable materials are being dispensed.*
⚠️	*Immediately disconnect power if any sparking or smoke appears.*
⚠️	*Do not expose the machine directly to sunlight.*

Maintenance

The DC100 MAX is generally a maintenance free machine. However, to ensure smooth operation please follow the below instructions.

⚠️	*Only use non-woven cleaners on the machine.*
⚠️	*Avoid cleaning the machine with aggressive solvents – neutral detergents are preferred.*
⚠️	*Ensure that compressed air supply to the machine is clean and moisture free.*
⚠️	*Do not lay the barrel on its side. This will prevent fluids from flowing back into the machine.*

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SPECIFICATIONS

Dimensions (W x D x H):	7.56" x 5.04" x 3.00" (192 x 128 x 76 mm)
Weight:	2.31 lbs. (1.05 kg)
Input AC to Power Supply:	100 – 240 VAC, 50 / 60 Hz
Output DC from Power Supply:	24 VDC – 0.75 Amp
Cycle Rate:	Up to 600 cycles / min
Relative Humidity:	20 – 90% (No Condensation)
Operating Temperature:	50 – 104°F (10 – 40°C)
Timer:	0.008 – 999.9 seconds
Air Input:	100 psi (7 bar) max
Air Output:	1 – 100 psi (0.07 – 7 bar)
Standards:	CE & UKCA Approved, EMC Compliant. RoHS Compliant

ACCESSORIES

Item	Description	Quantity
5601890	Power Adaptor (Input: 100 – 240 VAC / Output: 24 VDC)	1
5601888	Foot Pedal	1
561851	Air Inlet Hose Assembly	1
5601969	FSX Syringe Barrel Stand	1
5779K712	Push To Connect Tube Fitting 1/4" Stem OD X 5/32" Tube OD	1

Note: Consumable kit (part # QK-CSK) & needle sample kit (part # QK-NSK) available to purchase separately.

Part # QK-CSK

Part # QK-NSK

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EXTERNAL CONTROLS

FRONT

REAR

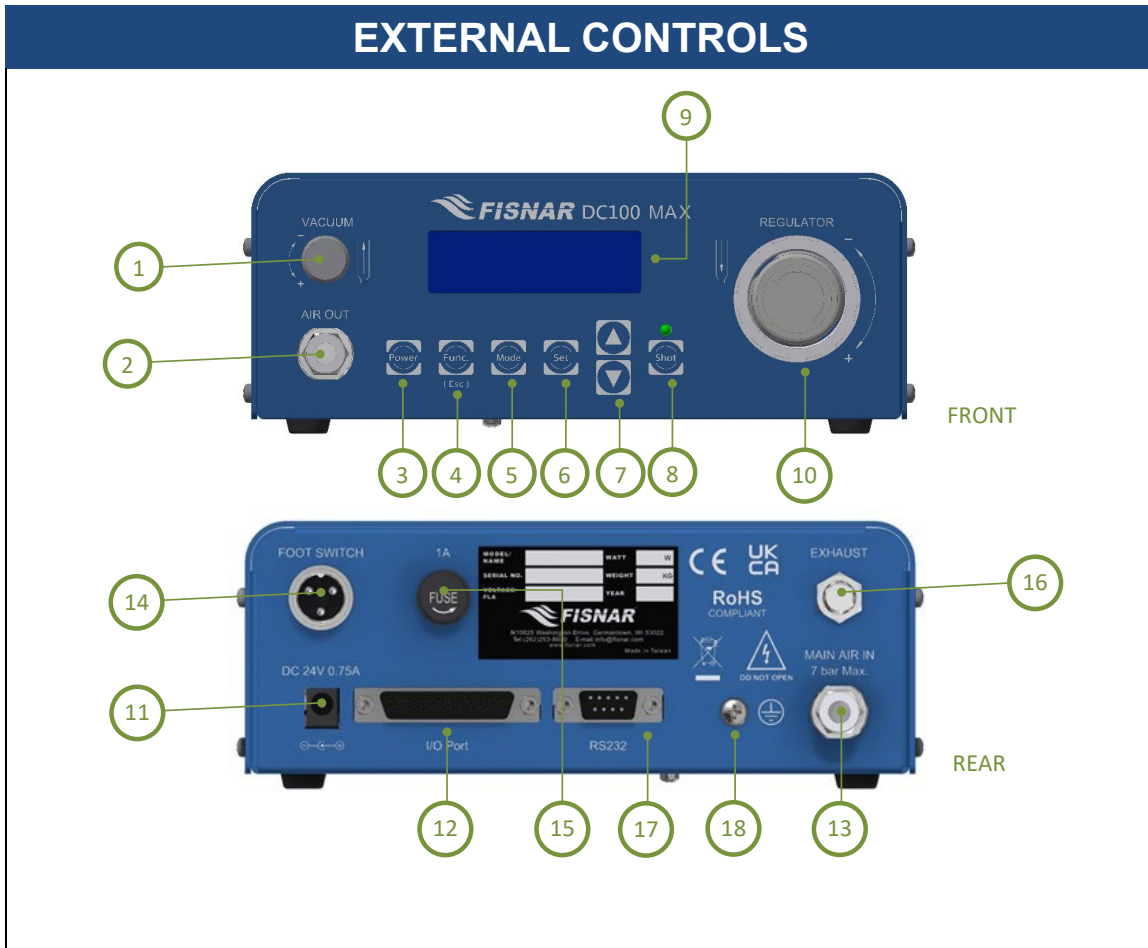| Item	Illustration	Item	Illustration	Item	Illustration
1	Vacuum Control	7	Scroll Buttons	13	Air In Port
2	Air Out Port	8	Shot Button	14	Foot Switch Connector
3	Power Button	9	Display	15	Fuse
4	Function / Escape Button	10	Air Pressure Regulator	16	Exhaust Port
5	Mode Button	11	Power Input Connector	17	RS232 Connector
6	Set Button	12	I/O Connector	18	Grounding Point

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EXTERNAL CONTROLS

1.	Suck Back Control	Keeps a negative air pressure in the syringe barrel when not dispensing. Required to prevent low viscosity fluids dripping from the dispense tip in between dispense cycles.
2.	Air Out Port	The syringe barrel adapter head assembly is connected here.
3.	Display Screen	Shows the current program number, dispense mode, parameter values and active function alarms of the machine. For further information, please refer to display screen overview.
4.	Pressure Regulator	Adjusts the amount of pressure being used to dispense fluid from the syringe barrel. To reach the desired pressure, turn the knob counterclockwise to a point below the required pressure, and then turn the knob clockwise to reach the required pressure. The regulator can be locked into position by tightening the jam nut behind the knob against the regulator body on the front panel of the machine.

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EXTERNAL CONTROLS
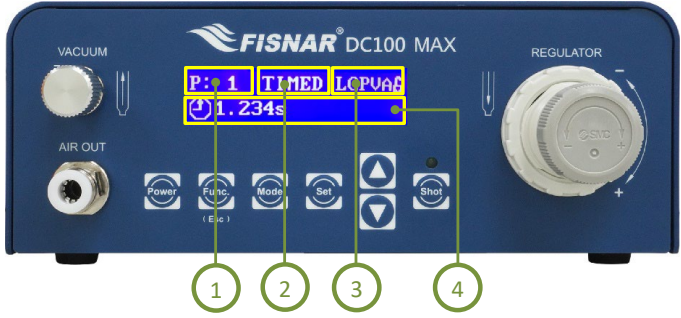

1.	Foot Switch Connector	The foot pedal switch is connected here. Alternatively, it can be used for connecting to an external device (e.g. Fisnar dispense robot) that will send the dispense start signal to the machine.
2	Fuse	The machine fuse is located here.
3.	Power Input Connector	Power input cable from the external power supply is connected here.
4.	I/O Connector	Where the external machine I/O input signals and output signals are connected. A courtesy 24V + output is also included on the I/O Connector
5.	RS232 Connector	Used for externally programming and controlling the machine. Alternatively, a barcode scanner can be plugged into this connector.
6.	Grounding Point	A wire from an external earth ground source within the workplace environment can be connected here to ensure the machine is permanently and safely grounded.
7.	Air In Port	External Compressed air 70-100 psi (5-7 bar) is connected here, using the supplied ¼" OD air inlet hose.
8.	Exhaust	When the suck-back control is in use, air will be exhausted from this port in between dispense cycles. A muffler (560024-DCHF) can be fitted into the exhaust outlet port to reduce the emitted noise of the exhausted air.

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DISPLAY SCREEN

1.	Program Number	Displays the currently selected program number. Up to sixteen (16) individual programs can be saved to the machine for future recall.
2.	Dispense Mode	Displays the current mode the saving program is in. There are five (5) dispense modes available: PURGE, TEACH, TIMED, TIME+ and CYCLE.
3.	Function Alarms	Displays which feature(s) are currently turned ON. I.E. Dispense Limit (L), Glue Alarm (G), Pressure Alarm (P), Vacuum Alarm (V) and Auto Purge (A).
4.	Parameter Values	Displays the values of the machine parameters (i.e. dispensing time, pressure and/or vacuum).

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KEYPAD CONTROLS

1.	Power On / Off	Press the [Power] button to switch the machine ON or OFF.
2.	Function Menu	Press the [Func.] button to enter into the function menu.
3.	Dispense Mode	Press the [Mode] button to select the dispense mode that the program will operate in (i.e. PURGE, TEACH, TIMED, TIME+, CYCLE).
4.	Set Dispense Time / Function Menu Navigate	Press the [Set] button to set the dispense time. Use the [▲] or [▼] buttons to change the individual numeric value. The digit displaying the "_" below it, is the one that will be adjusted. Continue to press the [Set] button to scroll through the digit positions, adjusting the numerical values as required. When the [Set] button is pressed after the first digit from the left is displaying "_" below it, the "_" will move to below the decimal place.

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		Use the ▲ or ▼ buttons to move the decimal place into the correct needed position. The Set button can continue to be pressed to cycle through the digit and decimal place positions in a continuous scrolling cycle. When the dispense time has been correctly set, press and hold the Set button for approximately two (2) seconds to save the dispense time and exit back to the home screen. When in the function menu, the Set button is used to enter into the function setting and then used to scroll through the different parameter values within the function setting.
5.	Parameter Display	Press the ▲ or ▼ button to scroll through the different parameter display screens. **Dispense Time**

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Dispense Time and Vacuum

P: 1 TIMED
🕐1.234s ⬆0.00iHg

Dispense Time and Pressure

P: 1 TIMED
🕐1.234s 0.0psi

Dispense Limit, Glue Alarm and Auto Purge

P: 1 TIMED
L10 G1 A 0⁄ 0

6.	Dispense Shot	Press the [Shot] button to actuate the machine and begin dispensing fluid.

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MACHINE SETUP

1.	Connect the air hose from a compressed air supply source 70-100 psi (5-7 bar) to the "Air In" port on the back of the machine.
2.	Insert the foot pedal connector plug into the "Foot Switch" connector on the back of the machine.
3.	Attach the appropriate country type plug adapter onto the power supply and then connect the electrical power cord to the port on the back of the machine.
4.	Connect the end of the adapter head assembly with the green colored push to connect fitting, to the "Air Out" port on the front of the machine.

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DISPENSE SETUP

Attach the syringe barrel adapter head assembly to the syringe barrel (with piston fitted inside) as shown below. See FIG. 1 (A – C).
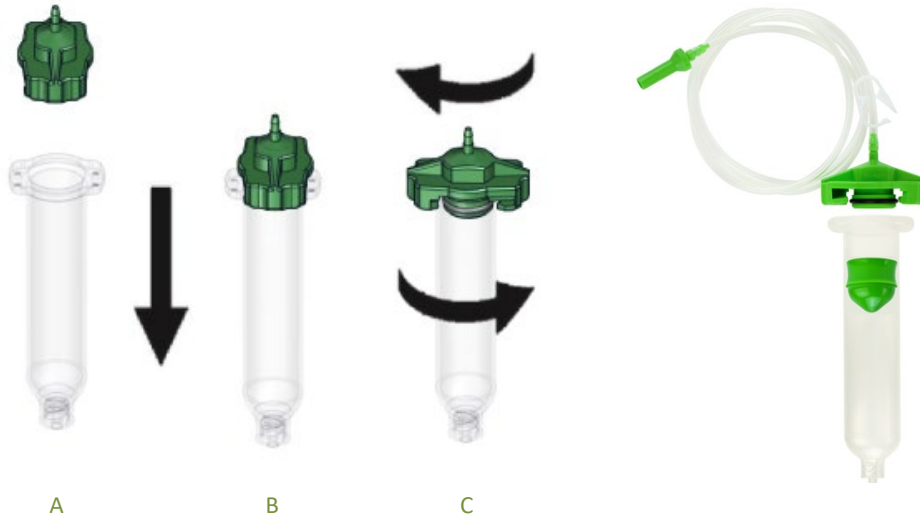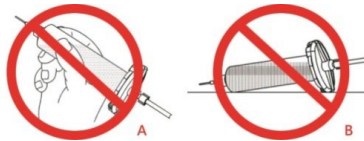

A　　　　　　B　　　　　　C

FIG. 1: Dispense Setup

⚠️ *Do not overfill the syringe barrel and/or lay the syringe barrel on its side. This will prevent fluids from flowing back into the machine – refer to figures A & B below. Place the filled syringe barrel in the supplied syringe barrel stand (5601969) when not being used.*

1.	Connect the syringe barrel adapter head assembly to the "Air Out" port on the front of the machine. Fisnar adapter head assemblies are fitted with a green colored push to connect fitting (5606038) that can be inserted directly into the "Air Out" port on the front of the machine.
2.	If a syringe barrel adapter head assembly with 5/32" OD tubing is being used with the machine that has a bayonet fitting attached to the end of it, make sure to cut the bayonet fitting off from the tubing first. Then install the included push to connect air adapter fitting (5779K712) onto the tubing and insert it into the "Air Out" port on the front of the machine. If a syringe barrel adapter head assembly with 1/4" OD tubing is being used with the machine, cut the bayonet fitting off from the tubing and insert it directly into the "Air Out" port.

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3.	When not being used, the syringe barrel should be placed in the syringe barrel stand provided. This will prevent the dispense tip from being accidentally damaged or having fluid inside the syringe barrel flow back into the machine if it is placed horizontally on the work surface. The bottle it is placed into, allows any fluid that drips from the dispense tip to be safely captured. The dispense tip is also protected in the bottle from any foreign contaminants or environmental lighting that may affect the properties of the fluid within it.
4.	Purge trays are provided with the syringe stand to allow for a small amount of fluid to be purged into a clean and contained location. This is also helpful when a new dispense tip is attached to the syringe barrel or when checking for accurate fluid material flow. This is helpful for ensuring optimum dispense results.

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DISPENSE MODES

PURGE MODE

1.	Press the [Mode] button until "PURGE" mode is displayed. PURGE mode allows the operator to actuate the machine on demand whenever the dispense signal is activated (i.e. foot pedal is pressed).
2.	Press the foot pedal or the [Shot] button to actuate the machine and begin dispensing fluid. Release the foot pedal or [Shot] button to stop dispensing fluid. The machine will count up from zero (0) seconds the amount of time you are dispensing fluid while the foot pedal or [Shot] button is pressed. The TIME shown on the digital display after the foot pedal or [Shot] button has been released, will reset to zero (0) seconds every time the machine is actuated.

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DISPENSE MODES

TEACH MODE

1.	Press the [Mode] button until "TEACH" mode is displayed. TEACH mode allows the operator to calculate the correct dispense time needed for the application process. This is useful when carrying out a potting process.
2.	Press the foot pedal or the [Shot] button to actuate the machine and begin dispensing fluid. Release the foot pedal or [Shot] button to stop dispensing fluid. The TIME shown will increase cumulatively every time the machine is actuated. If or when needed, press and hold the [Func.] button to reset the timer to zero (0).
3.	The time shown on the screen will be the total cumulative time the machine has been actuated for. Once the correct dispense time is obtained, press the [Mode] button to switch to TIMED, TIME+ or CYCLE mode to save the value.

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DISPENSE MODES

TIMED MODE

1.	Press the [Mode] button until "TIMED" mode is displayed. TIMED mode allows the operator to dispense fluid for a set period, regardless of how long the foot pedal is pressed.
2.	Press the [Set] button to set the dispense time. Use the [▲] or [▼] buttons to change the individual numeric value. The digit displaying the "_" below it, is the one that will be adjusted. Continue to press the [Set] button to scroll through the digit positions, adjusting the numerical values as required. When the [Set] button is pressed after the first digit from the left is displaying "_" below it, the "_" will move to below the decimal place. Use the [▲] or [▼] buttons to move the decimal place into the correct needed position.

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	The [Set] button can continue to be pressed to cycle through the digit and decimal place positions in a continuous scrolling cycle. When the dispense time has been correctly set, press and hold the [Set] button for approximately two (2) seconds to save the dispense time and exit back to the home screen.
3.	Press the foot pedal or the [Shot] button to actuate the machine and begin dispensing fluid. The dispense time will automatically start counting downwards from the set dispense time until it reaches zero (0) seconds. When the dispense time reaches zero (0) seconds, the machine will automatically stop dispensing and the dispense time will reset back to the set dispense time. The dispense cycle can be stopped before the dispense time reaches zero (0) by pressing the [Func.] button. If the "Dispense Cancel" function has been enabled, the dispense cycle can also be stopped before the dispense time reaches zero (0) by pressing the foot pedal or the [Shot] button.

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DISPENSE MODES

TIME+ MODE

1.	Press the [Mode] button until "TIME+" mode is displayed. TIME+ mode allows the operator to adjust the timed shot on the fly by a set amount as and when needed by pressing the [Set] button. This is useful for making slight adjustments on the dispense time without changing the original value in TIMED mode. This mode can be suitable for sensitive (temperature, humidity, short pot life, etc.) materials that require the dispense time value to be increased over an uncontrolled period of time determined by the operator to improve dispense repeatability over the longevity of the fluid being dispensed from the syringe barrel until it is empty.
2.	Press the foot pedal or the [Shot] button to actuate the machine and begin dispensing fluid. The dispense time will automatically start counting downwards from the set dispense time until it reaches zero (0) seconds.

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	When the dispense time reaches zero (0) seconds, the machine will automatically stop dispensing and the dispense time will reset back to the set dispense time. The dispense cycle can be stopped before the dispense time reaches zero (0) by pressing the [Func.] button. If the "Dispense Cancel" function has been enabled, the dispense cycle can also be stopped before the dispense time reaches zero (0) by pressing the foot pedal or the [Shot] button.
3.	When needed, press the [Set] button to add the time set in the "Add Time+" function to the dispense time value. The [Set] button can continue to be pressed to further increase the dispense time cumulatively based upon the time set in the "Add Time+" function setting. Press and hold the [Func.] button to reset the adjusted dispense time back to the original set dispense time value in TIMED mode.
4.	To reset the dispense time back to the original set dispense time value in TIMED mode, press and hold the [Func.] button. The dispense time value displayed under TIME+ mode will not affect the values in other modes (i.e. TIMED, TEACH, CYCLE). However, changing the time value in other modes will also change the value in TIME+ mode.

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DISPENSE MODES

CYCLE MODE

1.	Press the [Mode] button until "CYCLE" mode is displayed. CYCLE mode allows the operator to create a repeating cycle of dispense actuations. For example, dispense for 1 second and then wait for 3 seconds, and cycle these times over and over again.
2.	Press the [Set] button to set the dispense time. Use the [▲][▼] buttons to change the individual numeric value. The digit displaying the "_" below it, is the one that will be adjusted. Continue to press the [Set] button to scroll through the digit positions, adjusting the numerical values as required. When the [Set] button is pressed after the first digit from the left is displaying "_" below it, the "_" will move to below the decimal place. Use the [▲][▼] buttons to move the decimal place into the correct needed position.

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3.	Press the foot pedal or the [Shot] button to actuate the machine and begin dispensing fluid. The dispense time will automatically start counting downwards from the set dispense time until it reaches zero (0) seconds. When the dispense time reaches zero (0) seconds, the machine will automatically stop dispensing and the dispense time will reset back to the set dispense time. The machine will then automatically start counting down from the time set in the "Cycle Delay" function setting until it reaches zero (0) seconds. Once the machine has counted down to zero (0) seconds, it will automatically begin dispensing fluid again according to the set dispense time until it reaches zero (0) seconds. The dispense cycle can be stopped before the dispense time reaches zero (0) by pressing the [Func.] button. This looping cycle will continue to be repeated until the [Shot] or [Func.] button is pressed again. A full shot cycle is counted towards the cumulative dispense counter whenever the dispense timer reaches zero (0).

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FUNCTION MENU

The machine offers built-in functions that provide additional control and adjustment to the dispense application and machine settings.

Instructions:

- Press the [Func.] button to enter the Function menu.

- Press the [▲][▼] buttons to scroll through the available function settings.

- Press the [Set] button to enter into the selected function setting and adjust/set as needed.

- Press the [Func.] button to exit the function menu.

Overview:

Function Setting	Description
1. Program Number	Sets the program number that the machine will operate in.
2. Glue Alarm	Sets the amount of time that the machine will operate for, before an alarm signal is automatically activated preventing the machine from being actuated.
3. Pressure Alarm	Sets the pressure and tolerance required for optimum dispensing conditions.
4. Vacuum Alarm	Sets the vacuum and tolerance required for optimum dispensing conditions.
5. Auto purge	Sets the dispense time and delay time for automatic purging of material.
6. Add Time+	Sets the amount of time added to the TIME+ value when the "Set" button is pressed.
7. Cycle Delay	Sets the amount of time that the machine will remain idle for after executing a dispense cycle, before automatically actuating the next dispense cycle, when the machine is in "CYCLE" mode.

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8. Dispense Count	Displays the total number of dispense cycles made per work cycle. This counter is resettable.
9. Dispense Limit	Sets the total number of dispense cycles that the machine is able to complete.
10. Dispense Time	Displays the total dispense time made per work cycle. This timer is resettable.
11. Sequence	Allows the user to create and run a sequence of programs one after the other
12. Shot Actuation	Sets if the dispense actuation signal will work as a momentary or latching type.
13. Power Button	Sets if the machine automatically turns on when power is applied, or switches on when the power button is pressed.
14. Language	Choose LCD display language.
15. Calibration	Calibrates the digital pressure and vacuum gauge to the atmospheric and environmental conditions where the machine is being used.
16. Machine Reset	Resets the machine back to its factory default settings
17. Total Cycles	Displays the total number of cycles the machine has carried out. This timer is not resettable.
18. Used Time	Displays the total number of hours the machine has been used. This timer is not resettable.
19. Machine Copy	Copies machine settings from one machine to another.
20. RS232 Port	Sets if the RS232 port is to work with a barcode scanner or be used for external machine control.
21. Pressure Unit	Sets the pressure unit displayed on the machine.
22. Vacuum Unit	Sets the vacuum unit displayed on the machine.
23. Dispense Cancel	Allows the user to set if the dispense cycle can be cancelled before the end of the dispense cycle is reached.
24. Change Password	Changes the password used to lock or unlock the machine controls and function menu.
25. Operator Lockout	Locks or unlocks the machine controls and function menu.

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FUNCTION MENU
1. Program Number

This function allows the user to select the program number that the machine will operate in and the dispense time will be saved against. The user can select a program number between 1 and 16.

1.	When the Program Number page is displayed, press the [Set] button to enter into the setting page for the program number.
2.	Press the [▲] or [▼] button to select the required program number.
3.	Press the [Func.] button to exit the selected function setting.

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FUNCTION MENU
2. Glue Alarm

This function allows the user to set a timer that will trigger a visual and audible alarm to indicate when the fluid material is either no longer useable, or its optimal working life has been reached. This functionality is particularly useful for sensitive (moisture, temperature, light, etc.) or multi-component materials which have strict pot-life or working life dispensing requirements.

1.	When the Glue Alarm page is displayed, press the [Set] button to enter into the setting page for the Glue Alarm.
2.	There are two (2) adjustable parameters for this function: <u>MODE</u>, <u>Glue Time</u>. Press the [Set] button to scroll through these parameters.
3.	MODE: Use the [▲] or [▼] buttons to turn the Glue Alarm <u>MODE</u> On or Off.
4.	Time Left (TL): Displays the time left before the glue alarm is activated. The glue time (GT) can be reset back to the original set value by pressing the [Func.] button.
5.	Glue Time (GT): Use the [▲] and [▼] button to set the <u>Glue Time</u> value in minutes "m".

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6.	Press the [Func.] button to exit the selected function setting. The Glue Alarm Time will automatically start after exiting the Function menu back into the home screen.
7.	A letter "G" will show on the home screen when this function is turned ON. The Glue Alarm time left (G) can be seen counting down when the Function display screen is selected.
8.	When the timer reaches zero (0), the text "G" will flash and a pop-up message "!Glue Alarm!" will be displayed on the screen. Pin #6 of the I/O output circuit will also be activated.
9.	The Glue Alarm Time is reset by pressing the [Func.] button or momentarily (two (2) seconds) activating pin #16 of the I/O input circuit.

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FUNCTION MENU
3. Pressure Alarm

This function allows the user to set a pressure value threshold (as well as a corresponding percentage tolerance) that must be met in order for the machine to be actuated. A visual and audible alarm will trigger if the set regulated pressure is not within tolerance.

1.	When the Pressure Alarm page is displayed, press the [Set] button to enter into the setting page for the Pressure Alarm.
2.	There are two (3) adjustable parameters for this function: <u>MODE</u>, <u>Pressure</u>, <u>Tolerance</u>. Press the [Set] button to scroll through these parameters.
3.	<u>MODE:</u> Use the [▲] or [▼] buttons to turn the Pressure Alarm <u>MODE</u> On or Off.
4.	<u>Pressure:</u> Use the [▲] or [▼] buttons to set the required regulated <u>Pressure</u> value. Or, press the [Mode] button to import the set regulated pressure value, displayed on the home screen.

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5.	<u>Tolerance:</u> Use the ▲ or ▼ buttons to set the <u>Tolerance</u>. When this tolerance is exceeded above or below the set pressure, then the Pressure Alarm will be activated.
6.	Press the **Func.** button to exit the selected function setting.
7.	A letter "P" will be displayed on the home screen when this function is turned ON.
8.	Whenever the regulated pressure is outside of the set tolerance, the letter "P" will flash and it will not be possible to actuate the machine. Pin #6 of the I/O output circuit will also be activated. If the machine is actuated when the Pressure Alarm is activated, a pop-up message "!Pressure Alarm!" will be displayed on the screen and an audible noise heard.
9.	The pop-up message "!Pressure Alarm!" is removed by pressing the **Func.** button or momentarily (two (2) seconds) activating pin #16 of the I/O input circuit. Check the MAIN AIR IN pressure and/or adjust the pressure regulator on the front of the machine as needed.

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FUNCTION MENU
4. Vacuum Alarm

This function allows the user to set a vacuum value threshold (as well as a corresponding percentage tolerance) that must be met in order for the machine to be actuated. A visual and audible alarm will trigger if the vacuum is not within tolerance.

1.	When the Vacuum Alarm page is displayed, press the [Set] button to enter into the setting page for the Vacuum Alarm.
2.	There are two (3) adjustable parameters for this function: <u>MODE</u>, <u>Vacuum</u>, <u>Tolerance</u>. Press the [Set] button to scroll through these parameters.
3.	<u>MODE:</u> Use the [▲] or [▼] buttons to turn the Vacuum Alarm <u>MODE</u> On or Off. Or, press the [Mode] button to import the set regulated pressure value, displayed on the home screen.
4.	<u>Vacuum:</u> Use the [▲] or [▼] buttons to set the required <u>Vacuum</u> value.

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5.	Tolerance: Use the ▲ or ▼ buttons to set the Tolerance. When this tolerance is exceeded above or below the set vacuum, then the Vacuum Alarm will be activated.
6.	Press the [Func.] button to exit the selected function setting.
7.	A letter "V" will be displayed on the home screen when this function is turned ON.
8.	Whenever the vacuum is outside of the set tolerance, the letter "V" will flash and it will not be possible to actuate the machine. Pin #6 of the I/O output circuit will also be activated. If the machine is actuated when the Vacuum Alarm is activated, a pop-up message "!Vacuum Alarm!" will be displayed on the screen and an audible noise heard.
9.	The pop-up message "!Vacuum Alarm!" is removed by pressing the [Func.] button or momentarily (two (2) seconds) activating pin #16 of the I/O input circuit. Adjust the vacuum control knob on the front of the machine as needed.

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FUNCTION MENU
5. Auto Purge

This function allows the user to set an automatic dispense time in pre-defined intervals when the machine is idle. This functionality is particularly useful for sensitive (moisture, temperature, light, etc.) or multi-component (2K) materials which have strict pot-life or working life dispensing requirements. This prevents premature curing of material in the mixing nozzle or dispense tip.

1.	When the Auto Purge page is displayed, press the [Set] button to enter into the setting page for the Auto Purge.
2.	There are two (3) adjustable parameters for this function: MODE, Delay Time, Dispense Time. Press the [Set] button to scroll through these parameters.
3.	MODE: Use the [▲] or [▼] buttons to turn the Auto Purge MODE On or Off.
4.	Delay Time: Use the [▲] or [▼] buttons to set the required Delay Time value in minutes (m).
5.	Dispense Time: Use the [▲] and [▼] buttons to set the required Dispense Time value in seconds (s).

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6.	Press the [Func.] button to exit the selected function setting.
7.	A letter "A" will be displayed on the home screen when this function is turned ON. The Auto Purge Delay Time and Dispense Time can be seen counting down when the Function display screen is selected.
8.	The Auto Purge Delay Time will begin counting down to zero (0) after the machine has been actuated for the first time after exiting the function menu. When the timer reaches zero (0), the machine will automatically actuate for the time set in the Auto Purge Dispense Time parameter. A letter "A" will flash on the home screen during the actuation of the Auto Purge Dispense Time . If the machine is actuated before the timer reaches zero (0), then the machine will reset back to the time set in the Auto Purge Delay Time parameter and begin automatically counting down to zero (0), after the completion of the dispense cycle.
9.	The Auto Purge can be reset at any time by pressing the [Func.] button or momentarily (two (2) seconds) activating pin #16 of the I/O input circuit.

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FUNCTION MENU
6. Add Time+

This function allows the user to add a cumulative time offset to the original timed shot at any time by pressing the **Set** button. This function can be useful to control the dispensed material amount as the barrel or cartridge empties over time or when dispensing multi-component (2K) materials which are curing or increasing in viscosity over time.

This function is used in conjunction when the machine is set and used in Time+ mode.

1.	When the Add Time+ page is displayed, press the **Set** button to enter into the setting page for the Add Time+.
2.	Use the **▲** or **▼** buttons to set the time value in seconds (s) that will be added to the saved dispense time value when the **Set** button is pressed.
3.	Press the **Func.** button to exit the selected function setting.
4.	The cumulative time added to the saved time value when using the machine in Time+ mode can be deleted by pressing the **Func.** button or momentarily (two (2) seconds) activating pin #16 of the I/O input circuit.

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FUNCTION MENU
7. Cycle Delay

This function allows the user to set a delay time in between one dispense cycle ending and the next dispense cycle automatically starting.

This function is used in conjunction when the machine is set and used in Cycle mode.

1.	When the Cycle Delay page is displayed, press the [Set] button to enter into the setting page for the Cycle Delay.
2.	Use the [▲] or [▼] buttons to set the time value in seconds (s) that will be used as the Delay Time in between dispense cycles.
3.	Press the [Func.] button to exit the selected function setting.

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FUNCTION MENU
8. Dispense Count

This function displays the total number of completed cycles made by the machine. Every dispensing signal from all modes is accumulated to the Dispense Count counter.

The counter is resettable.

1.	When the Dispense Count page is displayed, press the [Set] button to enter into the setting page for the Dispense Count.
2.	Press and hold the [Set] button for 3 seconds to reset the Dispense Counter to zero (0).
3.	After the dispense counter has been reset, the machine will automatically return back to the function menu.

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FUNCTION MENU
9. Dispense Limit

This function allows the user to set the total number of dispense cycles that the machine is able to complete. A visual alarm will trigger once the Dispense Limit has been reached preventing the machine from being actuated further until the Dispense Limit has been reset.

1.	When the Dispense Limit page is displayed, press the [Set] button to enter into the setting page for the Dispense Limit.
2.	Use the [▲] or [▼] buttons to set the total number of dispense cycles that the machine is able to complete before the !limit Alarm" message is activated.
3.	Press the [Func.] button to exit the selected function setting.
4.	A letter "L" will be displayed on the home screen when this function is turned ON. The remaining dispense cycles (L) before the Dispense Limit is reached, can be seen counting down when the Function display screen is selected.

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5.	When the Dispense Limit value is reached a pop-up message "!Limit Alarm!" will be displayed on the screen. Pin #6 of the I/O output circuit will also be activated.
6.	The Dispense Limit is reset by pressing the [Func.] button or momentarily (two (2) seconds) activating pin #16 of the I/O input circuit.

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FUNCTION MENU
10. Dispense Time

This function displays the total number of minutes of dispensing made by the machine. Every dispensing time from all modes is accumulated to the Dispense Time timer regardless of whether the full timed shot was completed.

The time is resettable.

1.	When the Dispense Time page is displayed, press the [Set] button to enter into the setting page for the Dispense Time.
2.	Press and hold the [Set] button for 3 seconds to reset the Dispense Time timer to zero (0).
3.	After the Dispense Time timer has been reset, the machine will automatically return back to the function menu.

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FUNCTION MENU
11. Sequence

This function allows the user to create and run a sequence of programs one after the other. The user is able to control when the machine changes from one program to another by either shot count or time.

This function is particularly useful when dispensing multi-component (2K) materials which have strict pot-life or working life dispense requirements.

This allows the machine to maintain a consistent shot size / dispense volume by increasing the dispense time as the material is increasing in viscosity.
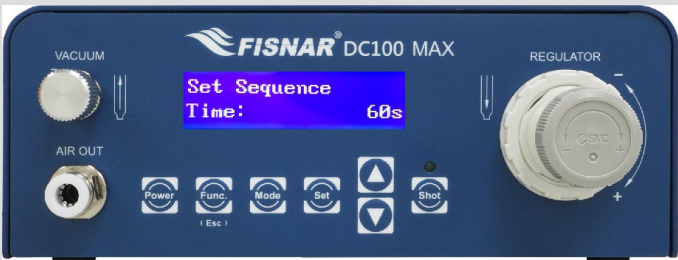
1.	When the Sequence page is displayed, press the [Set] button to enter into the setting page for the Sequence.
2.	There are six (6) adjustable parameters for this function: <u>MODE</u>, <u>Program Change</u>, <u>Shot</u>, <u>Time</u>, <u>Start</u>, <u>End</u>. Press the [Set] button to scroll through these parameters.
3.	<u>MODE:</u> Use the [▲] or [▼] buttons to turn the Sequence <u>MODE</u> On or Off.

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4.	Program Change: Use the ▲ or ▼ buttons to select if the machine will change from one program number to the next by shot count (SHOT) or by time (TIME).
5.	Shot: If the program number is to change from one program number to the next by shot count, use the ▲ or ▼ buttons to set the number of shots (n) that each program will cycle for, before changing to the next program number.
6.	Time: If the program number is to change from one program number to the next by time, use the ▲ or ▼ buttons to set the duration of time in seconds (s) that each program will remain in, before changing to the next program number.

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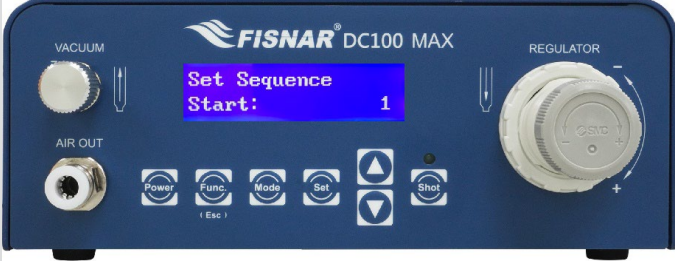
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7.	<u>Start:</u> Use the ▲ or ▼ buttons to set the Program number that the sequence will start from. **FISNAR® DC100 MAX** Set Sequence Start: 1
8.	<u>End:</u> Use the ▲ or ▼ buttons to set the Program number that the sequence will end at. **FISNAR® DC100 MAX** Set Sequence End: 6
9.	Press the Func. button to exit the selected function setting. After exiting the Function Menu back into the home screen the machine will automatically change to TIMED mode and to the program number selected in the Start parameter. If the user has set to change the program number by time, then the machine will also automatically start counting down after exiting the Function menu back into the home screen. **FISNAR® DC100 MAX** S: 1 TIMED & 🕐1.234s 53s

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10.	When the sequence has executed through to the completion of the program number selected in the End parameter, a pop-up message "!Sequence End!" will be displayed on the screen. It will not be possible to actuate the machine further until it has been reset.
11.	The Sequence is reset back to the program number selected in the Start parameter by pressing the button or momentarily (two (2) seconds) activating pin #16 of the I/O input circuit. If the machine is reset whilst in the middle of carrying out a sequence, it will reset back to the program number selected in the Start parameter

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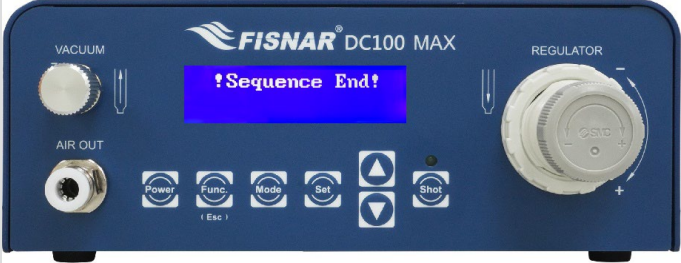
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FUNCTION MENU
12. Shot Actuation

This function allows the user to set if the dispense actuation signal will work as a momentary or latching type when the machine is set to PURGE mode.

Momentary (Default) = The machine will actuate for as long as the dispense actuation signal is received. When the dispense actuation signal is not received the machine will stop actuating.

Latching = The machine will actuate for as long as the dispense actuation signal is received. When the dispense actuation signal is not received the machine will continue to actuate. When the next dispense actuation signal is received the machine will stop actuating.

1.	When the Shot Actuation page is displayed, press the [Set] button to enter into the setting page for the Shot Actuation.
2.	Use the [▲] or [▼] buttons to set the shot actuation type,
3.	Press the [Func.] button to exit the selected function setting.

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FUNCTION MENU
13. Power Button

This function allows for the machine to be turned on immediately when power is applied, instead of pushing the power button on the machine. This can be helpful when the machine is being used as part of a larger system that has a main power switch, allowing for the machine to start up and be ready for use when the main power is turned onto the system.

Enabled = The machine is turned on using the power button on the machine.

Disabled = The machine is turned on immediately when power is applied.

1.	When the Power Button page is displayed, press the [Set] button to enter into the setting page for the Power Button.
2.	Use the [▲] or [▼] buttons to set if the power button is enabled or disabled
3.	Press the [Func.] button to exit the selected function setting.

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FUNCTION MENU
14. Language

This function allows the user to select the language that will be displayed on the screen. The user can select English, Mandarin Chinese, French, Spanish or German

1.	When the Language page is displayed, press the [Set] button to enter into the setting page for the Language.
2.	Use the [▲] or [▼] buttons to set the required language.
3.	Press the [Func.] button to exit the selected function setting.

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FUNCTION MENU
15. Calibration

This function allows the user to calibrate the digital pressure and vacuum gauge to the atmospheric and environmental conditions where the machine is being used.

1.	When the Calibration page is displayed, press the [Set] button to enter into the setting page for the Calibration.
2.	Follow the prompt on the screen to confirm that the Main Air In hose has been removed from the back of the machine by pressing the [Set] button.
3.	Press and hold the [Set] button for 3 seconds to calibrate the pressure and vacuum gauge on the machine.
4.	After the pressure and vacuum gauge has been calibrated, the machine will automatically return back to the function menu.

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FUNCTION MENU
16. Machine Reset

This function allows the user to reset the machine back to its factory default settings.

1.	When the Machine Reset page is displayed, press the [Set] button to enter into the setting page for the Machine Reset.
2.	Press and hold the [Set] button for 10 seconds to reset the machine back to its factory default settings.
3.	After the Machine has been reset, the machine will automatically switch off.

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FUNCTION MENU

17. Total Cycles

This function displays the total number of completed cycles made by the machine. Every dispensing signal from all modes is accumulated to the Dispense Count counter.

The counter is not resettable.

It is not possible to access this function setting.

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FUNCTION MENU
18. Used Time

This function displays the cumulative lifetime hours that the machine has been powered on for. The timer starts counting as soon as the machine is turned ON.

The timer is not resettable.

It is not possible to access this function setting.

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FUNCTION MENU
19. Machine Copy

This function allows the user to copy all stored programs, settings, and parameters from one machine to another. (The receiving machines programs, settings, and parameters will be overwritten)

The function can only be used by the machine containing the stored programs, settings, and parameters that you want to transfer onto another machine.

1.	Install a straight parallel RS232 communication cable between the RS232 port on the back of the two machines.
2.	When the Machine Copy page is displayed, press the [Set] button to enter into the setting page for the Machine Copy.
3.	Follow the prompt on the screen to confirm that an RS232 cable has been connected between the machine being controlled and the machine that the settings and parameters are to be copied onto by pressing the [Set] button.
4.	Ensure that the machine that the settings and parameters are to be copied onto is powered on and displaying the home screen.
5.	Press and hold the [Set] button for 3 seconds to copy the setting and parameters from one machine to another.
6.	A message will appear on both machines to confirm the settings and parameters have been successfully copied, and then automatically return back to the home screen.

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FUNCTION MENU
20. RS232 Port

This function allows the user to set if the RS232 Port on the back of the machine is to be setup to allow a barcode scanner to be connected to the machine or to allow the machine to be programmed and controlled remotely using MODBUS communication protocol.

1.	When the RS232 Port page is displayed, press the [Set] button to enter into the setting page for the RS232 Port.
2.	Use the [▲] or [▼] buttons to set the configuration of the RS232 Port.
3.	Press the [Func.] button to exit the selected function setting.

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FUNCTION MENU
21. Pressure Unit

This function allows the user to select the pressure units of measurement that will be displayed on the screen. The user can select psi, bar or kPa.

1.	When the Pressure Unit page is displayed, press the [Set] button to enter into the setting page for the Pressure Unit.
2.	Use the [▲] or [▼] buttons to set the required pressure unit of measurement.
3.	Press the [Func.] button to exit the selected function setting.

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FUNCTION MENU
22. Vacuum Unit

This function allows the user to select the vacuum units of measurement that will be displayed on the screen. The user can select inHg, inH2o, or kPa.

1.	When the Vacuum Unit page is displayed, press the [Set] button to enter into the setting page for the Vacuum Unit.
2.	Use the [▲] or [▼] buttons to set the required vacuum unit of measurement.
3.	Press the [Func.] button to exit the selected function setting.

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FUNCTION MENU
23. Dispense Cancel

This function allows the user to set if the dispense cycle can be cancelled before the end of the dispense cycle is reached.

This can be useful when the machine is being operated in TIME mode and there is a risk that the foot pedal switch may be accidentally pressed.

Enabled = The dispense cycle can be cancelled by sending another dispense actuation signal before the end of the dispense cycle is reached.

Disabled = The dispense cycle cannot be cancelled.

1.	When the Dispense Cancel page is displayed, press the [Set] button to enter into the setting page for the Dispense Cancel.
2.	Use the [▲] or [▼] buttons to enable or disable the Dispense Cancel function.
3.	Press the [Func.] button to exit the selected function setting.

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FUNCTION MENU
24. Change Password

This function allows the user to change the password that is used to enter into the function menu when the Operator Lockout function is activated.

1.	When the Change Password page is displayed, press the [Set] button to enter into the setting page for the Change Password.
2.	Use the [▲], [▼] and [Set] buttons to enter the current password (1111). If the password is forgotten a master password (1985) can be entered, to reset a new password.
3.	Press and hold the [Set] button for two seconds.
4.	Use the [▲], [▼] and [Set] buttons to enter the new password.
5.	Press and hold the [Set] button for three seconds. The machine will then automatically exit back to the function menu.

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FUNCTION MENU
25. Operator Lockout

This function allows the user to prevent the operator from making an adjustment to the machine settings or parameters. When activated, the [Mode] and [Set] button are disabled and access to the Function Menu is password protected

1.	When the Operator Lockout page is displayed, press the [Set] button to enter into the setting page for the Operator Lockout.
2.	Use the [▲] or [▼] buttons to switch ON or OFF the Operator Lockout function.
3.	Press the [Func.] button to exit the selected function setting.
4.	To confirm if the Operator Lockout has been activated on the machine, refer to padlock symbol on the home screen. Padlock in locked state = Operator Lockout ON Padlock in unlocked state = Operator Lockout OFF

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FOOT SWITCH CONNECTOR

Pin #	Description
1	NO (Normally Open)
2	COM (Common)
3	Not Used

External Machine Actuation

Input	A dry contact closure (0 Volt) between the Input (Pin #1) and Common (Pin #2) pins will trigger a dispense signal.
⚠	**PLEASE READ:** **Do not apply a voltage between the input pin (1) and the common pin (2). Doing so will damage the control board and void all warranty conditions.**

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I/O CONNECTOR
Schematic

Pin #	Function	Pin #	Function
1	24V+ Internal Power OUT	14	Machine Ready OUT
2	Internal Ground (GND)	15	Internal Ground (GND)
3	Contact Closure Initialize IN	16	Clear/Reset IN
4	Alarm IN	17	Internal Ground (GND)
5	Internal Ground (GND)	18	Bit 0 IN
6	Alarm OUT	19	Bit 1 IN
7	Internal Ground (GND)	20	Bit 2 IN
8	Start Signal IN 24V+	21	Bit 3 IN
9	Start IN GND (0V)	22	Not Used
10	Machine Busy OUT	23	Not Used
11	Internal Ground (GND)	24	Not Used
12	End of Cycle OUT	25	Program Select IN
13	Internal Ground (GND)		

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Output Signals

Output Type: Open Collector Photocoupler (NPN)

Output Power: Output signals are able to sink a maximum of 200 milliamps per pin.

Output Function: When the output signal is activated, the circuit between the output pin (pin #6, 10, 12 & 14) and the GND (pin #2, 5, 7, 11, 13, 15 & 17) is completed.
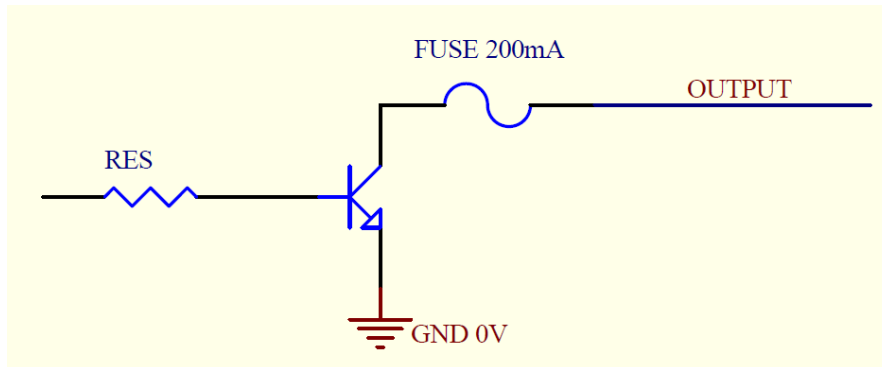
Example of I/O output port driving

⚠️ **PLEASE READ: If an inductive load (such as a relay) is connected to an output signal, be sure to install a diode as shown to prevent damage to the output photocoupler.**
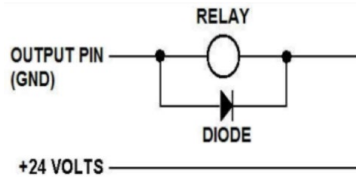
Installation of Diode

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Input Signals

Input Type: Photocoupler

Input Power: Pin #3, 4, 16, 18, 19, 20, 21 and #25 are an externally driven dry-contact voltage free contact closure circuit (I.E. Switch or Relay).

Input Function (pin #3, 4, 16, 18, 19, 20, 21 and #25):
To activate an input signal, pull the input pin (pin #3, 4, 16, 18, 19, 20, 21 or #25) down to a GND pin (pin #2, 5, 7, 11, 13, 15 & 17). Input signals utilize the machine internal power supply.

Example of I/O input port driving

PLEASE READ:

A dry contact closure between inputs (pin #3 or pin #4) and any ground will trigger an input signal. DO NOT apply a voltage 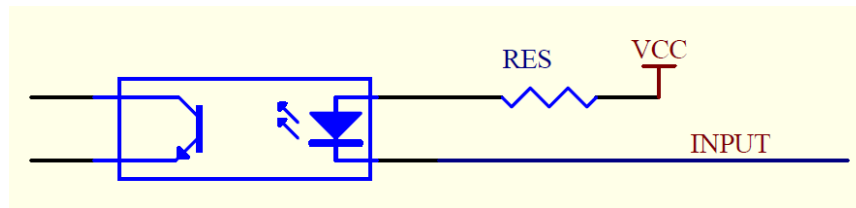to input pin #3 or pin #4 and ground. Doing so will damage the internal control board and void all warranty conditions.

Input Function (pin #8):
To actuate the machine from an external device using a voltage signal (24V+),
-    connect input pin "Start Signal IN 24V+" (pin #8) to an external power supply (24V+)
-    connect input pin "Start IN GND (0V)" (pin #9) to an external ground (0V)
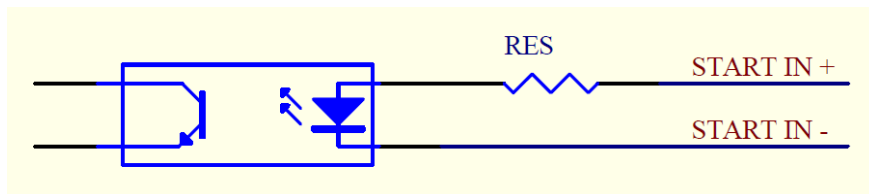
Example of I/O input port driving (pin #8)

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Output Signal Definition

Pin #6 Alarm Out (Output):
- The signal will be activated if any one of the below conditions occur.
    - If the external "Alarm In" input circuit has been activated.
    - If the "Glue Alarm" has been activated by reaching zero (0).
    - If the "Pressure Alarm" has been activated due to the pressure being outside of the set tolerance.
    - If the "Vacuum Alarm" has been activated due to the vacuum being outside of the set tolerance.
    - If the "Dispense Count Limit" has reached the set limit value.

- A pop-up message will be displayed on the home screen of the machine confirming the reason why the "Alarm Out" signal has been activated.

- If the "Alarm Out" signal is activated during a program cycle, the program cycle will be automatically stopped.

- It will not be possible to actuate a new program cycle until the "Alarm Out" signal has been switched off and the machine reset by pressing the [Func.] button or momentarily (two (2) seconds) activating pin #16 of the I/O input circuit.

Pin #10 Machine Busy (Output):
- When the machine is actuating a program cycle the signal will be activated.

- When the machine is in the function menu the signal will be activated.

Pin #12 End of Cycle (Output):
- When the machine has completed a program cycle the signal will be momentarily activated for a period of approximately 10ms.

Pin #14 Machine Ready (Output):
- After machine power on, the signal will be activated.

- The signal will automatically switch off if any of the below conditions occur.
    - "Machine Busy" Output signal activated.
    - "End of Cycle" Output signal activated.
    - "Alarm Out" Output signal activated.

- The signal will be re-activated automatically when all of the above conditions do not occur.

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Input Signal Definition

Pin #3 CC Initialize (Input):

- When connected to a GND pin the "CC Initialize" signal will be activated, resulting in the machine dispense cycle being actuated.
  - o When in "PURGE" or "TEACH" mode, the machine will continue to be actuated (i.e. Dispensing fluid) until "CC Initialize" signal is removed from the GND pin.
  - o When in "TIMED" or "TIME+" mode, the machine will continue to be actuated (i.e. Dispensing fluid) until the set dispense time on the machine has been reached.
  - o When in "CYCLE" mode, the machine will continue to be actuated (i.e. Dispensing fluid) in a looping cycle until "CC Initialize" signal is removed from the GND pin and then re-applied.

- A green LED light will light up above the [Shot] button on the front panel of the controller, to identify the machine is actuating a dispense cycle (i.e. Dispensing fluid).

Pin #4 Alarm In (Input):

- When connected to a GND pin the "Alarm In" signal will be activated, resulting in the "Alarm Out" signal (Pin #6) being activated automatically.

- A pop-up message "Input Alarm" will also be displayed on the home screen

- It will not be possible to actuate a new dispense cycle until the "Alarm In" signal has been de-activated and the machine reset by pressing the [Func.] button or momentarily (two (2) seconds) activating pin #16 of the I/O input circuit.

Pin #8 Start Signal IN 24V+ (Input):

- When connected to an external 24V+ power supply, the "Start Signal IN 24V+" signal will be activated, resulting in the machine dispense cycle being actuated.
  - o When in "PURGE" or "TEACH" mode, the machine will continue to be actuated (i.e. Dispensing fluid) until "CC Initialize" signal is removed from the GND pin.
  - o When in "TIMED" or "TIME+" mode, the machine will continue to be actuated (i.e. Dispensing fluid) until the set dispense time on the machine has been reached.
  - o When in "CYCLE" mode, the machine will continue to be actuated (i.e. Dispensing fluid) in a looping cycle until "CC Initialize" signal is removed from the GND pin and then re-applied.

- A green LED light will light up above the [Shot] button on the front panel of the controller, to identify the machine is actuating a dispense cycle (i.e. Dispensing fluid).

⚠️ **PLEASE READ: For the "Start Signal IN 24V+" signal to work correctly, "Start IN GND (0V)" (pin #9) must be connected to an external GND (0V)**

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Pin #16 Clear/Reset In (Input):

- When momentarily (two (2) seconds) connected to a GND pin the "Clear/Reset In" signal will be activated, resulting in the machine being reset and/or error message being cleared.

- The machine will need to be reset after one or more of the following conditions have occurred.
    - Glue Alarm function activated
    - Pressure Alarm function activated
    - Vacuum Alarm function activated
    - Dispense Limit function activated
    - Alarm IN signal activated
    - End of Sequence completed

Pin #18, 19, 20 and 21 Bit Status In (Input):

- The status setting of pin #18 - #21 are used to create a binary value to set the program number that the machine will automatically change to when the "Program Select" pin #25 signal is activated.

- When connected to a GND pin the "Bit Status" signal will be activated, resulting in its status changing.
    - Activated = Bit Status High (1)
    - Not Activated = Bit Status Low (0)

- The below table can be referenced, to set the correct program number according to the Bit Status.

Program Number	Pin #18 Bit Status 0	Pin #19 Bit Status 1	Pin #20 Bit Status 2	Pin #21 Bit Status 3
1	0	0	0	0
2	1	0	0	0
3	0	1	0	0
4	1	1	0	0
5	0	0	1	0
6	1	0	0	1
7	0	1	1	0
8	1	1	1	0
9	0	0	0	1
10	1	0	0	1
11	0	1	0	1
12	1	1	0	1
13	0	0	1	1
14	1	0	1	1
15	0	1	1	1
16	1	1	1	1

Pin #16 Program Select In (Input):

- When momentarily connected to a GND pin, the "Program Select IN" signal will be activated, causing the machine program number being changed according to the Bit Status of pin #18-21.

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Input / Output Signal Testing

The machine can be configured into a "Test" mode in order to allow the user to test the input and output signals of the I/O connector, the foot switch connector and the keypad buttons on the front panel of the machine.

1.	Remove the electrical power cord from the back of the machine.
2.	Press and hold down the [Power] button and then insert the electrical power cord into the back of the machine.
3.	Once the LCD display panel is illuminated and displaying a solid white color background release the [Power] button.
4.	Press the [Func.] button to display the I/O Test Screen
5.	The upper line of values on the display screen will change state ("0" to "1") to confirm the keypad button is working correctly or the machine I/O output is working correctly or internal electrical relay is working correctly. - 1st digit = Press [Power] button to test activate "Alarm Out" signal. - 2nd digit = Press [Func.] button to test activate "Machine Busy Out" signal. - 3rd digit = Press [Mode] button to test activate "End Of Cycle Out" signal. - 4th digit = Press [Set] button to test activate "Machine Ready Out" signal. - 5th digit = Press [Shot] button to test activate "Internal Electrical Relay" signal

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6.	The lower line of values on the display screen will change state ("1" to "0" or "0" to "1") to confirm the keypad button is working correctly or the machine I/O input is working correctly. The values displayed from left to right are confirmed below - 1st digit = Power button - 2nd digit = Func. button - 3rd digit = Mode button - 4th digit = Set button - 5th digit = Up Arrow button - 6th digit = Down Arrow button - 7th digit = Shot Button - 8th digit = Contact Closure Initialize IN - 9th digit = Alarm IN - 10th digit = Start Signal IN - 11th digit = Clear/Reset IN - 12th digit = Bit 0 IN - 13th digit = Bit 1 IN - 14th digit = Bit 2 IN - 15th digit = Bit 3 IN - 16th digit = Program Select IN - 17th digit = Foot Switch IN
7.	To exit the I/O Test Screen remove the electrical power cord from the back of the machine.
8.	Reinsert the electrical power cord back the back of the machine and press the [Power] button.

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RS232 CONNECTOR
Barcode Scanner

A barcode scanner can be attached to the machine, allowing the user to change the program number on the machine and actuate a dispense cycle.

Keyence barcode scanner (HR-100) plus communication cable (HR-1C3RC) and a null modem adapter have been successfully tested with the machine.

Keyence HR-100

1.	Check the RS232 Port Function Setting in the function menu of the machine, to make sure that "BARCODE" has been selected.
2.	Plug the Barcode Scanner into the RS232 port on the back of the machine, ensuring that a null modem adapter is fitted between the communication cable and RS232 connector port.
3.	Scan the appropriate barcode label (appendix 1) to change the program number on the machine and/or actuate a dispense cycle.

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RS232 External Control

An external connection can made with the RS232 connector on the back of the machine, allowing the user to remotely program, adjust, monitor and operate the machine using RS232 MODBUS communication protocol.

A standard straight parallel RS232 communication cable is needed to create a successful connection.

SerialPort

COM Port: COM3 | Connect
BaudRate: 115200
Protocol: N,8,1 | Disconnec

Function Demo

Shot: Shot ON | Shot OFF
Program: 1 | Set | Get

Write Data(Not required Crc Code)
64 06 00 02 00 02 | Send | Clear

Write Message

Read Message

RS232 MODBUS communication

1.	Check the RS232 Port Function Setting in the function menu of the machine, to make sure that "MODBUS" has been selected.
2.	Establish a connection between the external device and RS232 port on the back of the machine, ensuring that a straight parallel RS232 communication cable has been used.
3.	Refer to the programming table (appendix 2) for a list of commands that can be sent to the machine as a hexadecimal value.

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SPARE PARTS LIST
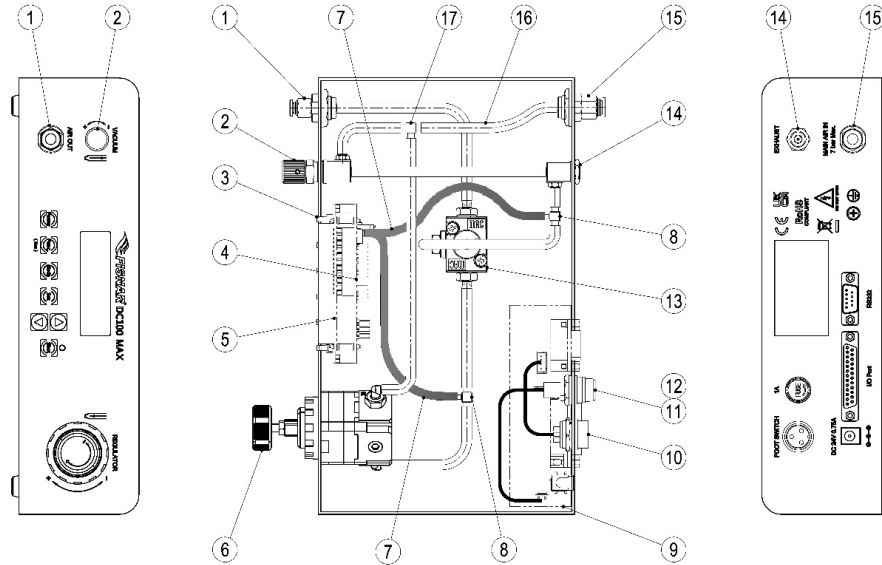
Item	Part Number	Description
1	5601872	Air Out Module
2	5601873	Vaccum Throttle
3	5601974	Button Patch Board
4	5601975	Control Board
5	5601976	LCD Display
6	5601891	Pressure Regulating Valve
7	5601886	Ø4mm Black PU Tubing
8	5601878	T-Style Barb Joint
9	5601977	Power Transfer Board
10	5601880	Dispenser Connector Wire
11	5601881	Fuse Wire
12	5601882	Fuse
13	5601898	Solenoid Module
14	5601884	Vacuum Valve
15	5601885	Air In Module
16	5601887	Ø6mm Transparent PU Tubing
17	5601894	T-Style Barb Joint (6mm)
18*	5601890	Power Adaptor (Input: 100 – 240 VAC / Output: 24 VDC)
19*	5601888	Foot Pedal
20*	561851	Air Inlet Hose Assembly
21*	5601969	FSX Syringe Barrel Stand
22*	5779K712	Push to Connect Tube Fitting 1/4" Stem OD X 5/32" Tube OD

*Item Not Shown

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SPARE PARTS LIST

5601969 - FSX Syringe Barrel Stand

Ref.	Item Number	Description
1	5601970	Purge Tray (50 per pack)
2	5601971	Bottle Kit (10 per pack)

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TECHNICAL DRAWING
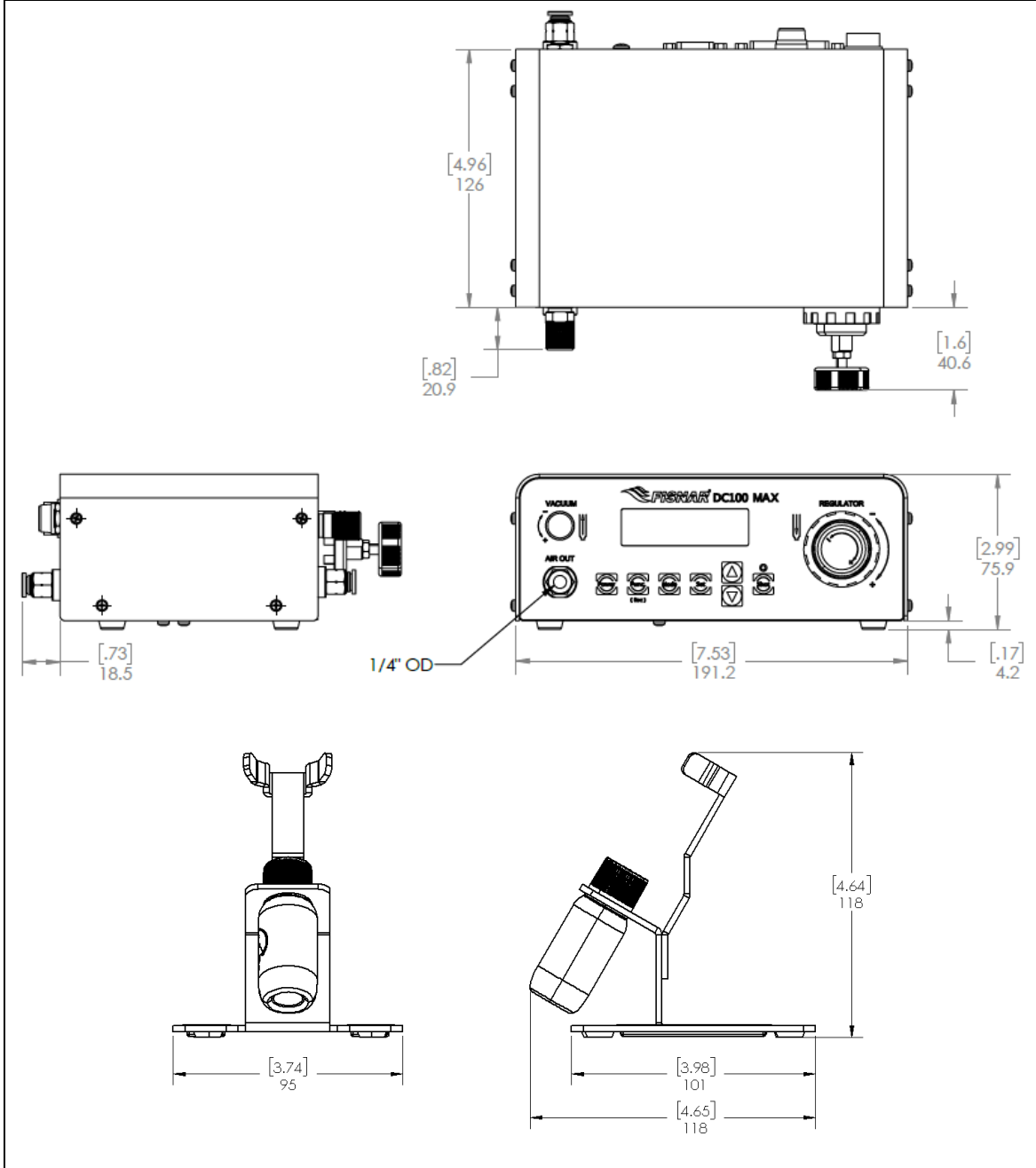
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APPENDIX 1

P16   P15   P14

P13   P12   P11

P10   P09   P08

P07   P06   P05

P04   P03   P02

P01   SHOT

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APPENDIX 2

MODBUS RTU

Transmitting speed rate settings:- 115200, n, 8, 1

Command Code (03H) Read Multiple Records/Parameters of Controller (1~100)

Write In	0	1	2	3	4	5	6	7
	Machine #	Command Code	Data Address		Data Record Quantity		CRC-16 Checking Code	
	64 H	03 H	00 H	01 H	00 H	01 H	CRC	CRC

Feedback	1	2	3	4	5	6	7	
	Machine #	Command Code	Data Record Qty	Data Information		CRC-16 Checking Code		
	64 H	03 H	02 H	00 H	00 H	CRC	CRC	

Command Code (06H) Write In Single Records/Parameters of Controller

Write In	0	1	2	3	4	5	6	7
	Machine #	Command Code	Data Address		Data Information		CRC-16 Checking Code	
	64 H	06 H	00 H	01 H	00 H	64 H	CRC	CRC

Feedback	0	1	2	3	4	5	6	7
	Machine #	Command Code	Data Address		Data Information		CRC-16 Checking Code	
	64 H	06 H	00 H	01 H	00 H	64 H	CRC	CRC

Command Code (10H) Write In Multiple Records/Parameters of Controller

Write In	0	1	2	3	4	5	6	7	8	9	10	11	12
	Machine #	Command Code	Data Address		Data Record Quantity		Data Bit Count	Data 1 Information		Data 2 Information		CRC-16 Check Code	
	64 H	10 H	00 H	01 H	00 H	02 H	04 H	00 H	01 H	00 H	01 H	CRC	CRC

Feedback	0	1	2	3	4	5	6	7					
	Machine #	Command Code	Data Address		Data Information		CRC-16 Checking Code						
	64 H	10 H	00 H	01 H	00 H	02 H	CRC	CRC					

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Command Read (R) / Write (W)	Parameter	Address Value	Data Value
R / W	Dispensing	0x0001	0 – 1 (Hex)
R / W	Program Number	0x0002	1 – 16 (Hex)
R / W	Mode	0x0003	1 – 5 (Hex)
R / W	Time P1 – P16	0x0100 … 0x010F:	0000 – 9999 (Hex)
R / W	Time Decimal Place Position P1 – P16	0x0110 … 0x011F:	1-3 (Hex)
R / W	Delay Time P1 – P16	0x0120 … 0x012F:	0000 – 9999 (Hex)
R / W	Delay Time Decimal Place Position P1 – P16	0x0130 … 0x013F:	1-3 (Hex)
R / W	Mode P1 – P16	0x0140 … 0x014F:	1-5 (Hex)
R	Pressure kPa	0x8001	Integer Number
R	Pressure inHg	0x8002	Integer Number
R	Pressure kPa	0x8003	Integer Number
R	Vacuum kPa	0x8004	1 Decimal Place
R	Vacuum inHg	0x8005	2 Decimal Place
R	Vacuum kPa	0x8006	Intger Number
Alarm Status 0x8007 (convert returned Hex value to Binary Value)			
R	Dispense Limit Alarm		Bit 0
R	Glue Alarm		Bit 1
R	Pressure Alarm		Bit 2
R	Vacuum Alarm		Bit 3
R	Input Alarm		Bit 4
Machine Input Status 0x8008 (convert returned Hex value to Binary Value)			
R	CC Stat Initialise		Bit 0
R	Input Alarm		Bit 1
R	24V Start Initialise		Bit 2
R	Clear / Reset		Bit 3
R	Bit 0 Signal		Bit 4
R	Bit 1 Signal		Bit 5
R	Bit 2 Signal		Bit 6
R	Bit 3 Signal		Bit 7
R	Program Select		Bit 8
R	Foot Switch		Bit 9

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Command Read (R) / Write (W)	Parameter	Hex Value	Input Value (x)
Machine Output Status 0x8009 (convert returned Hex value to Binary Value)			
R	Alarm		Bit 0
R	Busy		Bit 1
R	End of Cycle		Bit 2
R	Ready		Bit 3
R	Dispense Count P1-P16	0x8010 … 0x801F	0 – 9999
R	Total Cycles	0x8020 … 0x8021:	0 – 2147483647
R	Used Time (hours)	0x8022 … 0x8023	0 – 999999999
R	Used Time (minutes)	0x8024	0 – 59
R	Used Time (seconds)	0x8025	0 – 59
R	Software Version	0x8026	V1.0
R / W	Clear	0xAAAA	0 – 3
R / W	Save	0xABCD	0 – 1
Command Code Error + 0x80			
Error	Command Code Incorrect	0x01	
Error	Data Address Incorrect	0x02	
Error	Data Incorrect or Value out of range	0x03	