



VISIO **VISIO** PRO

MEMOLUB VISIO SERIES

KNOWLEDGE BASE

Ref. IDs: 6300, 6311, 6312, 6313, 6322, 6323, 1620, 6317, 6327

INTRODUCTION

MEMOLUB® VISIO / VISIO PRO

MEMOLUB® VISIO and VISIO PRO are single and multi-point electro-mechanical lubrication systems available in four sizes (120cc, 240cc, 480cc and 500cc for the OIL-R500 version).

The VISIO version is battery-operated, while the VISIO PRO version is powered by an external supply ranging from 6 to 36 VDC. Its original two-components design allows to easily remove parts subject to maintenance (cartridge and batteries) while keeping the settings permanently attached to the lubrication point.

With a high lubricant ejection pressure of 25 bar, both systems offer a wide range of applications that are not possible with conventional lubricators. They are equipped with highly visible, all-directional LEDs that provide clear indication of the lubricator status. For easy verification, a test function button is located at the bottom of the unit.

Visual alarms allow users to monitor:

- Correct pump operation
- Battery level (VISIO version)
- Empty cartridge condition

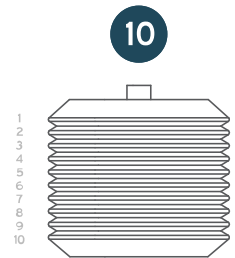
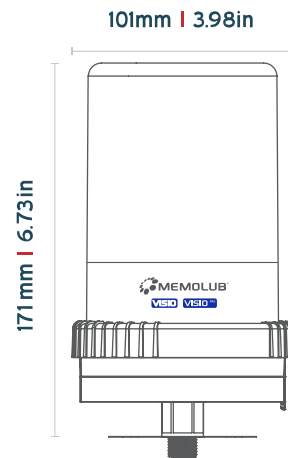
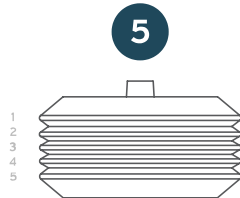
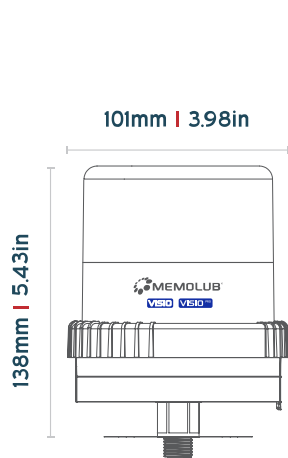
The VISIO PRO version is particularly suitable for applications where machinery is used intermittently or infrequently, as well as for OEM integration. It can also be directly connected to a PLC, allowing alarm signals to be transmitted and monitored through the machine control system.

Both versions can be mounted directly on the lubrication point or remotely installed. They can lubricate up to 8 grease points or up to 12 oil points simultaneously.

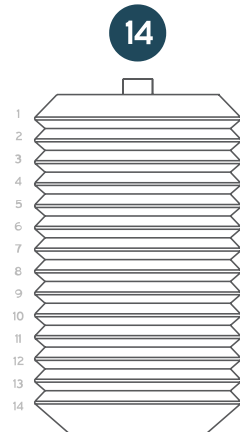
DIMENSIONS

120CC
Grease & Oil
120cc | 4oz

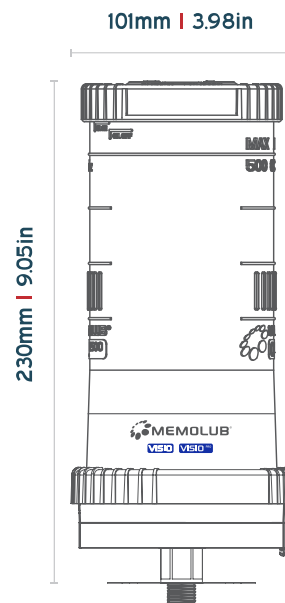
240CC
Grease & Oil
240cc | 8.1oz



480CC
Grease & Oil
480cc | 16.2oz



OIL R-500
Refillable Oil Reservoir
500cc | 16.9oz



PRECAUTIONS

- Do not open the housing: loaded spring
- Hold MEMOLUB® down during manual checks
- Leq <70 dB
- Use MEMOLUB® only for greasing machinery
- Use only lubricant cartridges and batteries recommended by the manufacturer



SPECIFICATIONS

GENERAL

	MEMOLUB VISIO
External dimensions	Ø101mm, H138 (std) to 251mm (Giga)
Temperature	

ELECTRICAL

	MEMOLUB VISIO	MEMOLUB VISIO PRO
Power Source	Battery	External - 6DIN M16 connection
Voltage	4.5V DC (3x1.5V DC AA)	6-36Vdc
PLC Connection	N/A	YES
Short circuit protection	Yes	
Stroke duration	8 seconds	
Minimum stroke interval	15 minutes	

SETTINGS & FEEDBACK

FREQUENCY SETTINGS

2ND GENERATION (SERIAL NUMBERS VIS-XX-XXXX & VPR-XX-XXXX)					
WHEEL POSITION	DOSING PERIODICITY	MAX. DAILY OUTPUT*	REFILLING FREQUENCY VS. CARTRIDGE CONTENT (120CC)	REFILLING FREQUENCY VS. CARTRIDGE CONTENT (240CC)	REFILLING FREQUENCY VS. CARTRIDGE CONTENT (480CC)
0**	External (PLC)				
1	48 hours	0.3 cc/day	12 months	24 months***	48 months***
2	24 hours	0.6 cc/day	6 months	12 months	24 months***
3	16 hours	0.9 cc/day	4 months	8 months	16 months***
4	12 hours	1.2 cc/day	3 months	6 months	12 months
5	8 hours	1.8 cc/day	2 months	4 months	8 months
6	6 hours	2.4 cc/day	1.5 month	3 months	6 months
7	4 hour	3.6 cc/day	1 month	2 months	4 months
8	2 hour	7.2 cc/day	0.5 month	1 month	2 months
9	1 hour	14.4 cc/day	0.25 month	0.5 month	1 month

*Maximum daily output without stroke washers.

** Only available on Memolub Visio Pro models.

*** Please consider lubricant expiry date for long cartridge lifetimes.

VOLUME SETTINGS [CM³/DAY]

2ND GENERATION (SERIAL NUMBERS VIS-XX-XXXX & VPR-XX-XXXX)										
By using stroke washers you can adjust the amount of lubricant discharged per pumping cycle.										
NUMBER OF STROKE WASHERS	WHEEL POSITION									
	0	1	2	3	4	5	6	7	8	9
-	External (PLC)	0.3	0.6	0.9	1.2	1.8	2.4	3.6	7.2	14.4
	External (PLC)	0.28	0.56	0.84	1.12	1.7	2.2	3.4	6.7	13.5
	External (PLC)	0.26	0.52	0.79	1.04	1.62	2.1	3.15	6.3	12.6
2 	External (PLC)	0.24	0.49	0.73	0.98	1.46	1.95	2.92	5.85	11.7
3 	External (PLC)	0.22	0.45	0.67	0.9	1.35	1.8	2.7	5.4	10.8
4 	External (PLC)	0.2	0.41	0.62	0.82	1.23	1.65	2.47	4.95	9.9
5 	External (PLC)	0.18	0.37	0.55	0.74	1.1	1.5	2.2	4.5	9
6 	External (PLC)	0.17	0.34	0.5	0.68	1	1.35	2.02	4.05	8.1

*The circlip must always be added on top of the washers.

💡 The circlip must always be added on top of the washers.

VISUAL FEEDBACK

2ND GENERATION (SERIAL NUMBERS VIS-XX-XXXX & VPR-XX-XXXX)	
COLOR	STATUS
	The testrun has been activated through pushbutton . / The pumping cycle ran successfully.
	Battery low / Lubricant cartridge empty.
	Gearmotor damaged / Piston blocked.

See FAQ's section for detailed information

REMOTE INSTALLATION DISTANCES

TYPE OF INSTALLATION	MAXIMUM DISTANCE*
Single point	8m
Multipoint with 2 outlets	6m
Multipoint with 4 outlets	
Multipoint with 6 outlets	
Multipoint with 8 outlets	
Multipoint with 10 outlets	Contact your distributor.
Multipoint with 12 outlets	

*The maximum distances are valid for a variety of greases with a consistency level up to NGLI2. For oils, we generally consider the same distances multiplied by a factor 2.

WIRED CONTROL

As wired control features are available for the VISIO PRO, there are two different ways to use the device:

- 1) By defining a periodic expulsion mode on the local rotary encoder wheel (positions 1 to 9), with corresponding preset frequencies listed in the "FREQUENCY" section (see above).
- 2) By triggering single expulsion using the wired connection (6 DIN M16 connector - wires n1 & n2) - see CABLING section below for implementation.

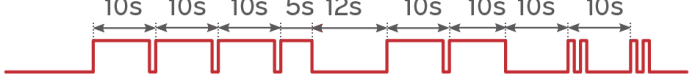
Note that periodic and single expulsions are NOT exclusive: both may be active simultaneously. If you don't want the periodic expulsions to be active, please set the encoder wheel on position "0". If you don't want the external triggers to be active, please disconnect wires 1 & 2 or disable control from the PLC side.

INTERMITTENT MODE

MEMOLUB VISIO PRO	
DESCRIPTION	SIGNAL
INPUT SIGNAL (FROM CUSTOMER PLC/TIMER)	1s<ti<5s Vi = 24Vdc
OUTPUT SIGNAL "BUSY" (TO CUSTOMER PLC)	17s
PUMP OUTLET (TO LUBRICATION)	Pmax = 25bars, V = 0.6cc
OUTPUT SIGNAL "DEFAULT" (TO CUSTOMER PLC)	10s 10s 10s

CONTINUOUS MODE

MEMOLUB VISIO PRO

DESCRIPTION	SIGNAL
INPUT SIGNAL (FROM CUSTOMER PLC/TIMER)	$V_i = 24V_{ac/dc}$ 
OUTPUT SIGNAL "BUSY" (TO CUSTOMER PLC)	$17s$ 
PUMP OUTLET (TO LUBRICATION)	$P_{max} = 25bars, V=0.6cc$ 
OUTPUT SIGNAL "DEFAULT" (TO CUSTOMER PLC)	

CABLE

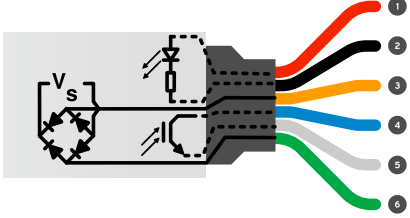
MEMOLUB VISIO PRO

The Memolub Visio Pro is delivered with a 6 x 0.25mm² cable with a 6DIN M16 female connector.

This connector has the 3 following functions:

- 1) To supply external power to the VISIO PRO, using the wires 3 & 6
- 2) To allow remote triggering of expulsions (i.e. from PLC), using the wires 1 & 2
- 3) To allow remote notification of alarms (i.e. to PLC) using the wires 4 & 5

If the remote controls 2) and 3) are not meant to be used, wires 1, 2, 4 and 5 are just not connected.

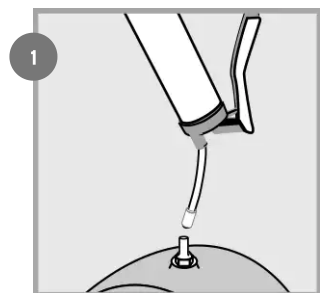
DESCRIPTION	
1. EXTERNAL INPUT (OPTOCOUPLER INPUT +)	
2. EXTERNAL INPUT (OPTOCOUPLER INPUT -)	
3. POWER SUPPLY + (6-36VDC)	
4. STATUS OUTPUT (OPTOCOUPLER COLLECTOR)	
5. STATUS OUTPUT (OPTOCOUPLER EMITTER)	
6. POWER SUPPLY - (0VDC)	

INSTALLATION GUIDELINES

DIRECT INSTALLATION MEMOLUB VISIO + MEMOLUB VISIO PRO (2nd GENERATION)

MEMOLUB VISIO and MEMOLUB VISIO PRO must always be installed in the upright position. Failure to install the device upright may lead to potential damage to the automatic lubricator and to your equipment. Incorrect orientation will void the warranty and may pose safety risks.

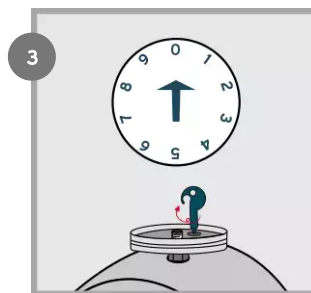
MEMOLUB VISIO and MEMOLUB VISIO PRO are equipped with advanced machine learning capabilities, allowing it to account for environmental conditions when calculating its status. A learning period of 20 cycles is required, during which the lubricator must remain in the same environment without any changes to its position, fastening, support, or grease type. If any of these parameters are altered, the learning process can be reset by pressing and holding the pushbutton for more than 5 seconds.



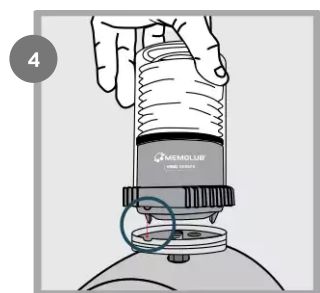
Prime lube point and remove nipple.



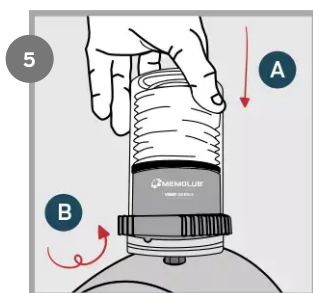
Install VISIO Base using a strong threadlocker (BSP 1/4).



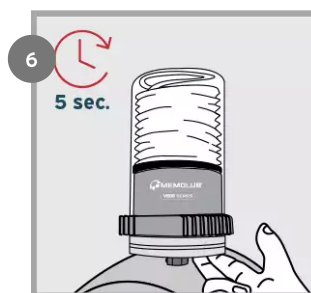
With setting key, choose wheel position according to "Settings" table above.



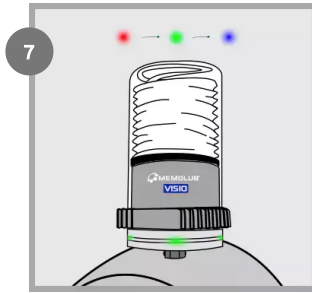
Align the pin of VISIO Module with the notch of VISIO Base.



Screw tightly keeping the assembly aligned.



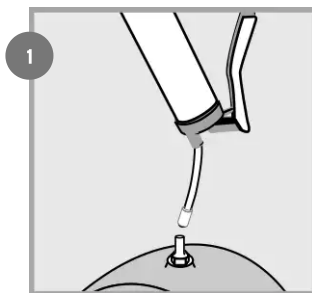
Initialise Visio by pushing the button for 5 seconds.



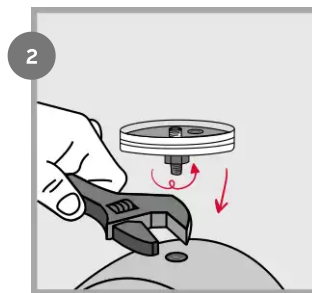
Initialisation is confirmed by flashing each color once.

DIRECT INSTALLATION MEMOLUB VISIO + MEMOLUB VISIO EP (1st GENERATION)

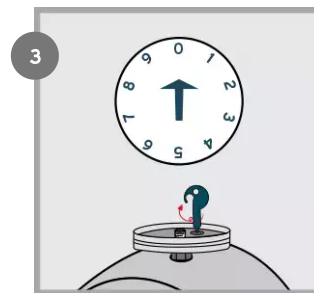
MEMOLUB VISIO and MEMOLUB VISIO EP must always be installed in the upright position. Failure to install the device upright may lead to potential damage to the automatic lubricator and to your equipment. Incorrect orientation will void the warranty and may pose safety risks.



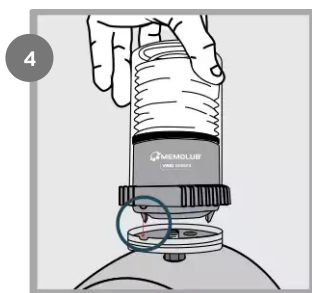
Prime lube point and remove nipple.



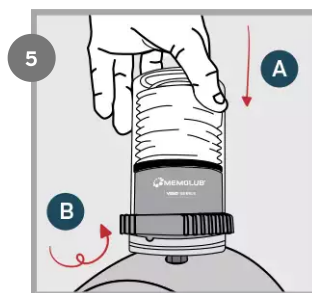
Install VISIO Base using a strong threadlocker (BSP 1/4).



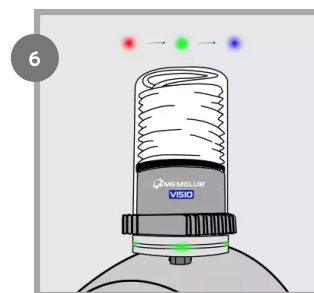
With setting key, choose wheel position according to "Settings" table above.



Align the pin of VISIO Module with the notch of VISIO Base.



Screw tightly keeping the assembly aligned.



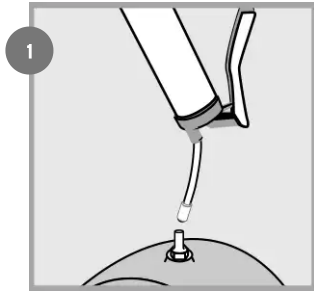
VISIO initializes, flashes each color on, and makes one expulsion. Green lights confirm normal operation.

REMOTE INSTALLATION MEMOLUB VISIO + MEMOLUB VISIO PRO (2nd GENERATION)

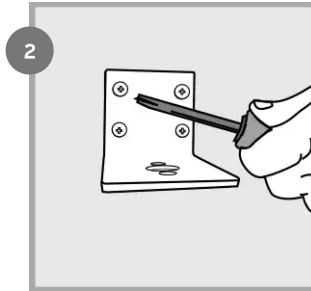
MEMOLUB VISIO and MEMOLUB VISIO PRO must always be installed in the upright position. Failure to install the device upright may lead to potential damage to the automatic lubricator and to your

equipment. Incorrect orientation will void the warranty and may pose safety risks.

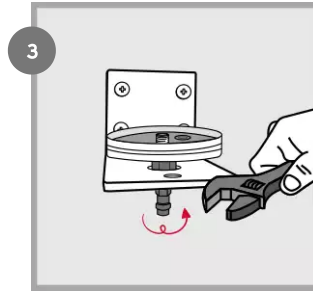
MEMOLUB VISIO and MEMOLUB VISIO PRO are equipped with advanced machine learning capabilities, allowing it to account for environmental conditions when calculating its status. A learning period of 20 cycles is required, during which the lubricator must remain in the same environment without any changes to its position, fastening, support, or grease type. If any of these parameters are altered, the learning process can be reset by pressing and holding the pushbutton for more than 5 seconds.



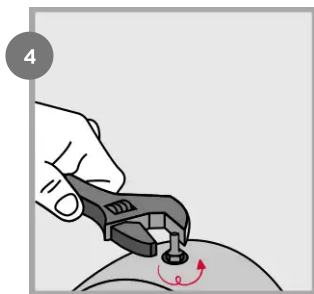
Prime lube point and remove nipple.



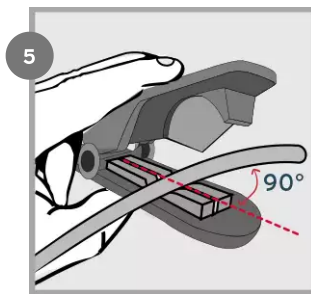
Secure the mounting bracket.



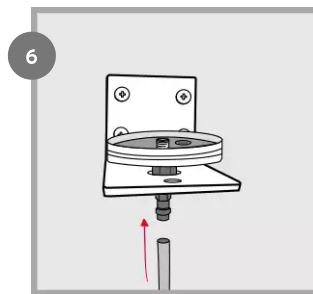
Install VISIO Base and F1/4 fitting on bracket using a strong threadlocker.



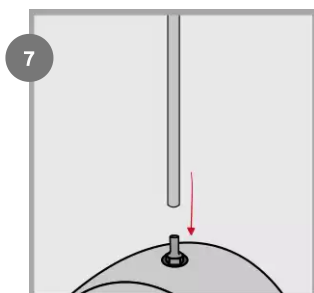
Install BSP 1/8 fitting on lube point.



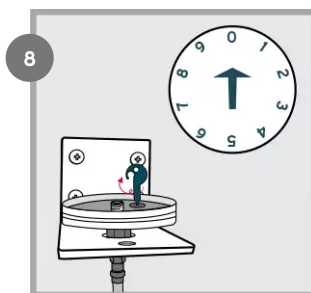
Cut hose to required size.



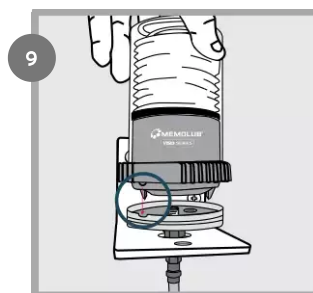
Insert hose into bracket's quick fitting.



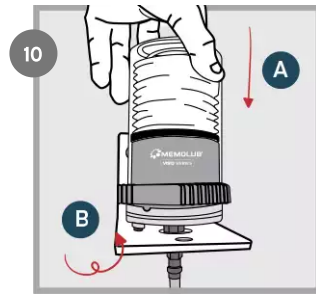
Insert hose into lube point's quick fitting.



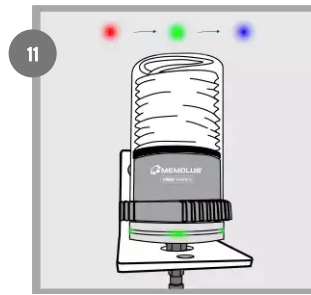
With setting key, choose wheel position according to "Settings" table above.



Align the pin of VISIO Module with the notch of VISIO Base.



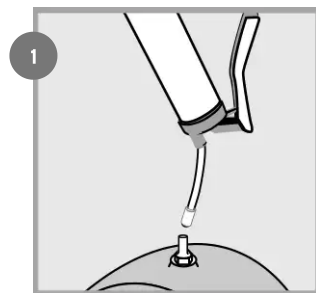
Screw tightly keeping the assembly aligned.



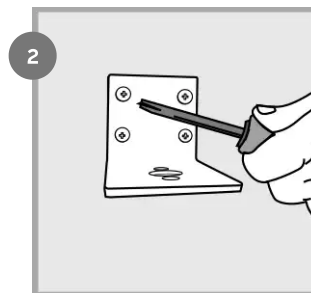
VISIO initialises, flashes each color on to confirm successful installation.

REMOTE INSTALLATION MEMOLUB VISIO + MEMOLUB VISIO EP (1st GENERATION)

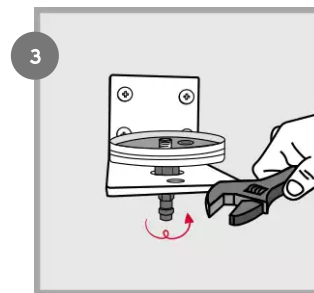
MEMOLUB VISIO and MEMOLUB VISIO PRO must always be installed in the upright position. Failure to install the device upright may lead to potential damage to the automatic lubricator and to your equipment. Incorrect orientation will void the warranty and may pose safety risks.



Prime lube point and remove nipple.



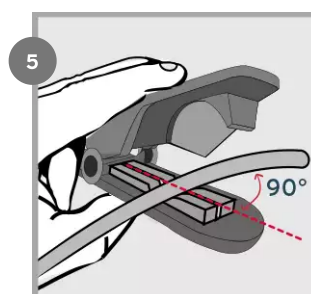
Secure the mounting bracket.



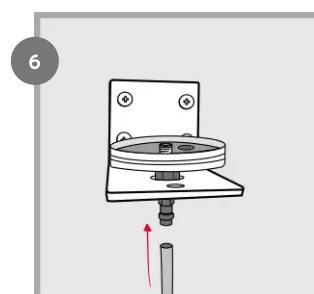
Install VISIO Base and F1/4 fitting on bracket using a strong threadlocker.



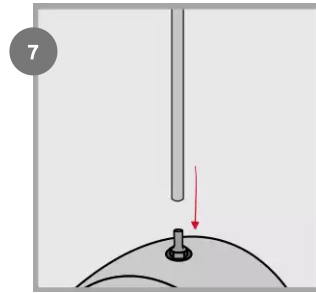
Install BSP 1/8 fitting on lube point.



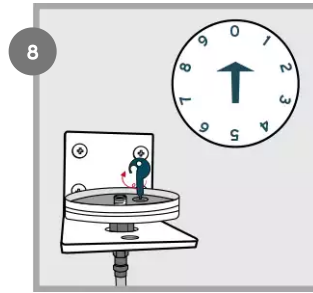
Cut hose to required size.



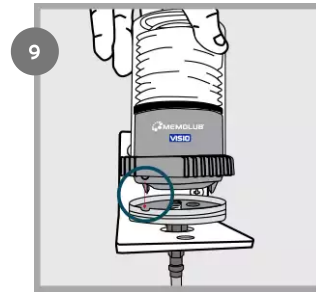
Insert hose into bracket's quick fitting.



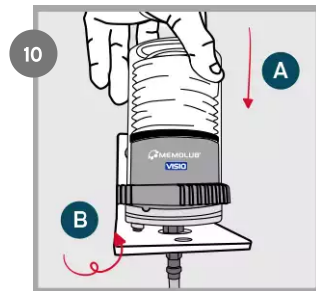
Insert hose into lube point's quick fitting.



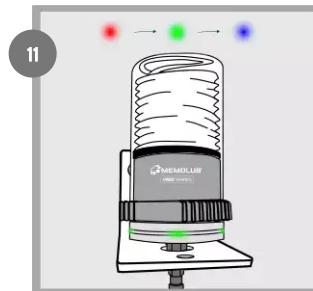
With setting key, choose wheel position according to "Settings" table above.



Align the pin of VISIO Module with the notch of VISIO Base.



Screw tightly keeping the assembly aligned.

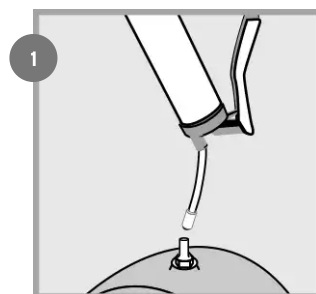


VISIO initializes, flashes each color on, and makes one expulsion. Green lights confirm normal operation.

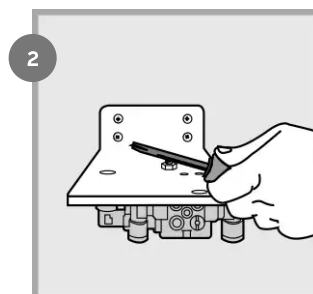
MULTIPOINT INSTALLATION MEMOLUB VISIO + MEMOLUB VISIO PRO (2nd GENERATION)

MEMOLUB VISIO and MEMOLUB VISIO EP must always be installed in the upright position. Failure to install the device upright may lead to potential damage to the automatic lubricator and to your equipment. Incorrect orientation will void the warranty and may pose safety risks.

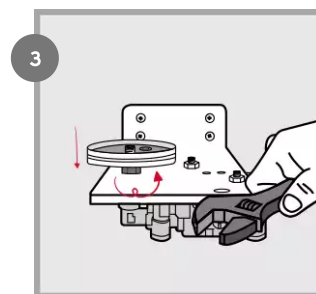
MEMOLUB VISIO and MEMOLUB VISIO PRO are equipped with advanced machine learning capabilities, allowing it to account for environmental conditions when calculating its status. A learning period of 20 cycles is required, during which the lubricator must remain in the same environment without any changes to its position, fastening, support, or grease type. If any of these parameters are altered, the learning process can be reset by pressing and holding the pushbutton for more than 5 seconds.



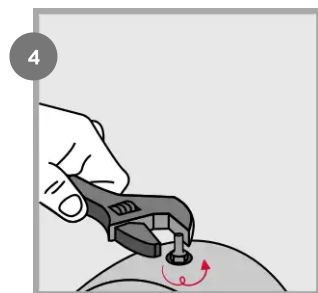
Prime lube point and remove nipple.



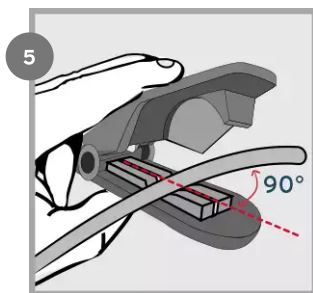
Secure the mounting bracket.



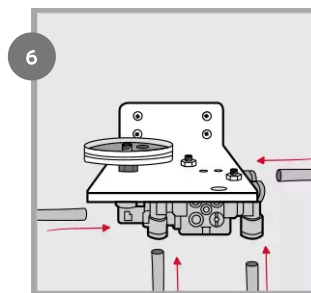
Install VISIO Base and F1/4 fitting on bracket using a strong threadlocker.



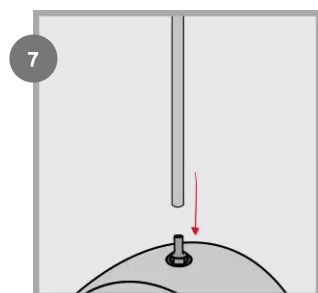
Install BSP 1/8 fitting on lube point.



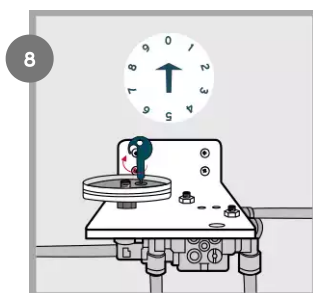
Cut the hoses to required size.



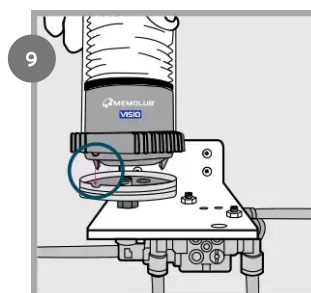
Insert hoses into bracket's quick fittings.



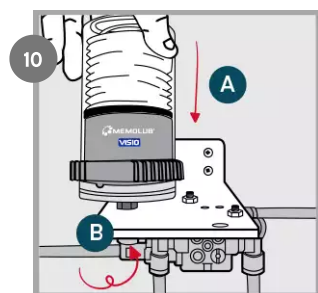
Insert hoses into lube points' quick fittings.



With setting key, choose wheel position according to "Settings" table above.



Align the pin of VISIO Module with the notch of VISIO Base.



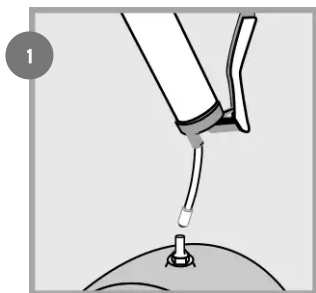
Screw tightly keeping the assembly aligned.



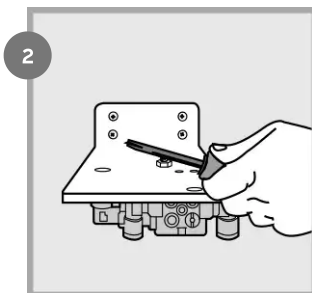
VISIO initializes, flashes each color on, and makes one expulsion. Green lights confirm normal operation.

MULTIPOINT INSTALLATION MEMOLUB VISIO + MEMOLUB VISIO EP (1st GENERATION)

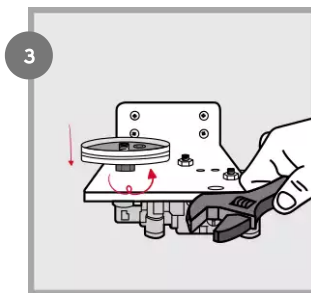
MEMOLUB VISIO and MEMOLUB VISIO EP must always be installed in the upright position. Failure to install the device upright may lead to potential damage to the automatic lubricator and to your equipment. Incorrect orientation will void the warranty and may pose safety risks.



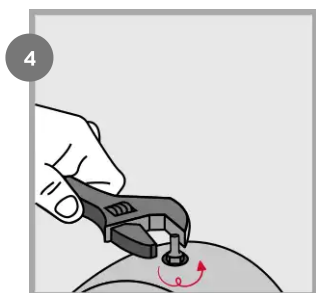
Prime lube point and remove nipple.



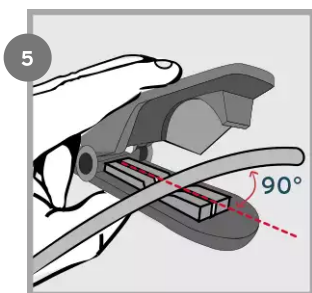
Secure the mounting bracket.



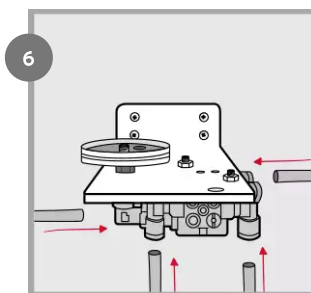
Install VISIO Base and F1/4 fitting on bracket using a strong threadlocker.



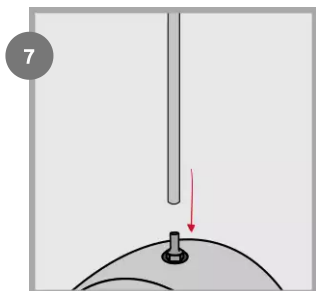
Install BSP 1/8 fitting on lube point.



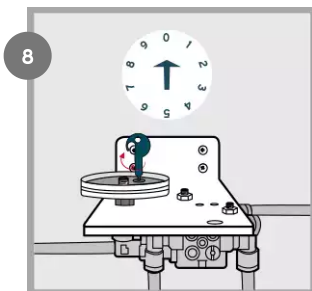
Cut the hoses to required size.



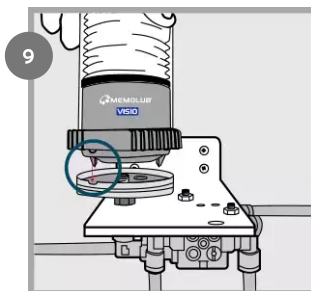
Insert hoses into bracket's quick fittings.



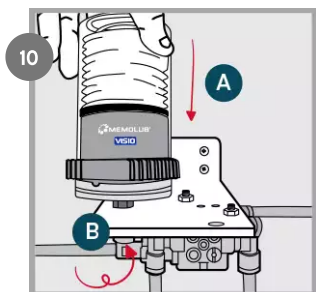
Insert hoses into lube points' quick fittings.



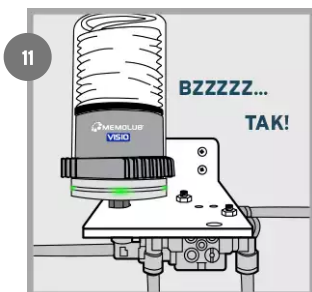
With setting key, choose wheel position according to "Settings" table above.



Align the pin of VISIO Module with the notch of VISIO Base.



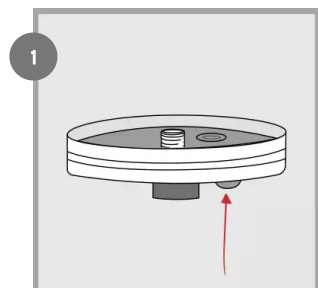
Screw tightly keeping the assembly aligned.



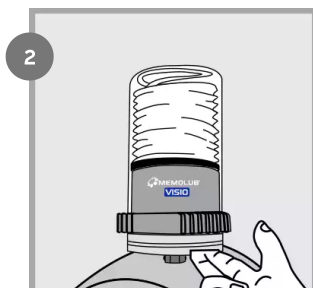
VISIO initializes, flashes each color on, and makes one expulsion. Green lights confirm normal operation.

CHECK FUNCTION

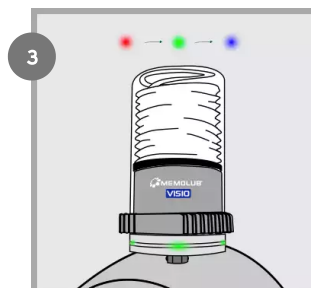
2ND GENERATION



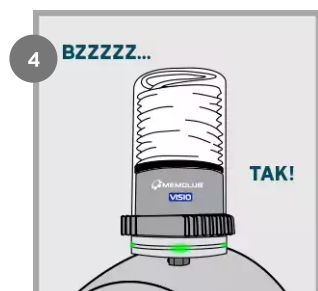
1
Locate the push button on the bottom of the memo.



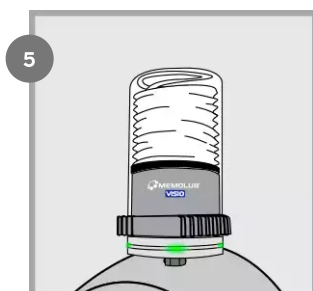
2
Push the button.



3
Memolub Visio / Visio Pro initialises, flashing each color on successively.

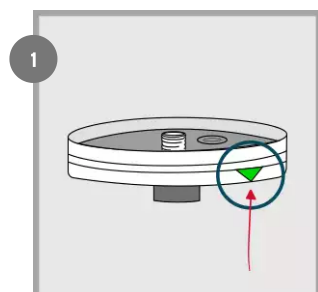


4
Memolub Visio / Visio Pro makes 1 expulsion.

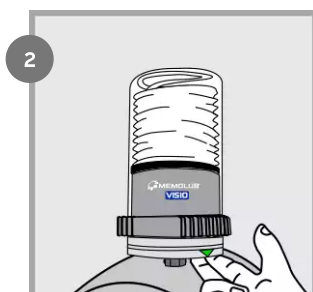


5
After scanning all parameters, VISIO flashes green lights in case of normal operation. For any other colors, please refer to the FAQ section.

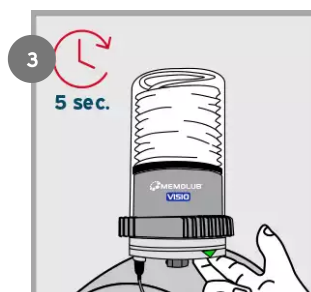
1ST GENERATION



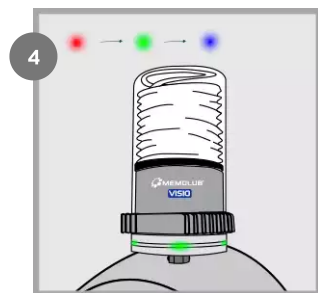
1
Locate the green triangular label indicating touchpad



2
Keep your fingers under VISIO Base, below the triangular sign. Blinking of the 4 green lights confirm activation of the touchpad.



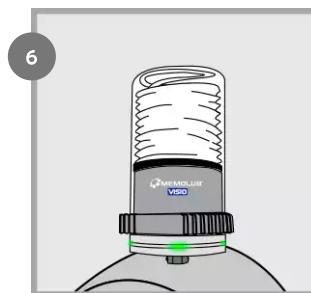
3
Once the total touch duration has reached 5 sec, the 4 green lights are turned on simultaneously for 1s.



VISIO initializes, flashing each color on successively.



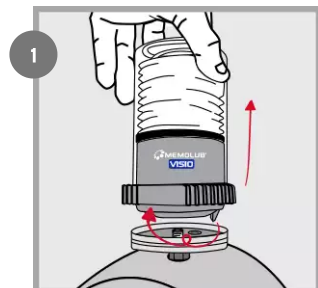
VISIO makes 1 expulsion.



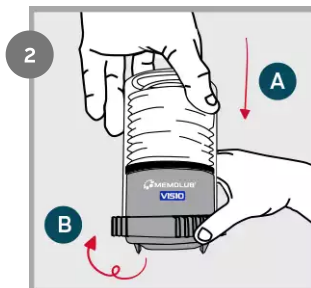
After scanning all parameters, VISIO flashes green lights in case of normal operation. For any other colors, please refer to the FAQ section.

REFILL GUIDELINES

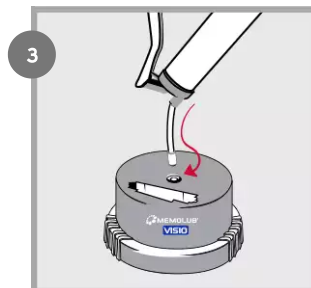
CARTRIDGES



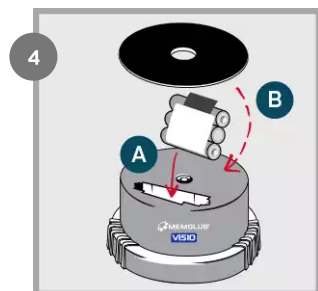
Remove VISIO Module from VISIO Base.



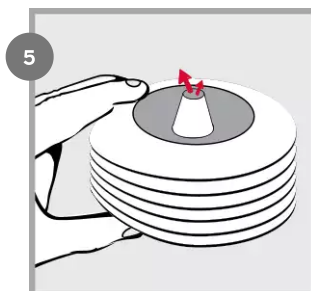
Open VISIO Module (fingers on ribs).



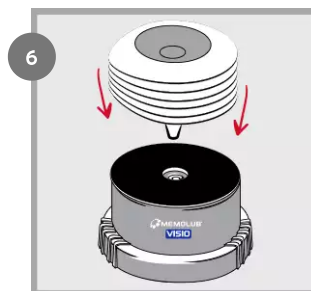
Prime VISIO Pump.



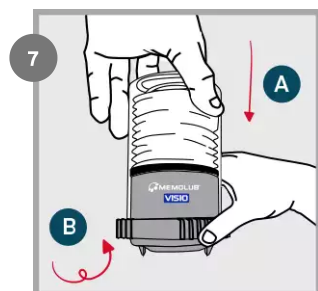
Insert new battery pack and seal. NOTE: the battery seal can be removed for 480cc cartridges



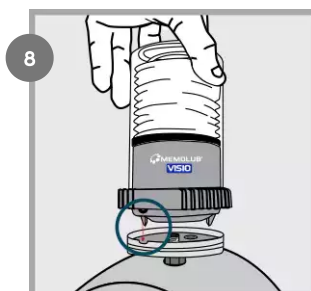
Squeeze air out of the cartridge.



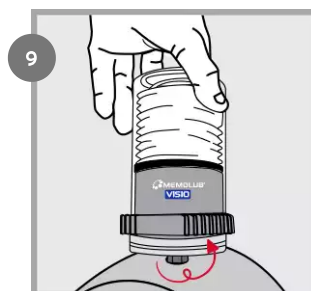
Replace the cartridge on VISIO Pump.



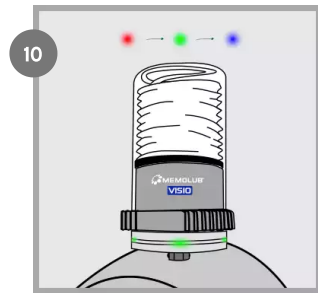
Close and lock VISIO Module (fingers on ribs).



Align the pin of VISIO Module with the notch of VISIO Base.



Screw tightly keeping the assembly aligned.



VISIO initializes, flashes each color on, and makes one expulsion. Green light confirms proper functioning.

VIDEO'S

Getting started: initiating a Memolub with a 6-DIN connector

Memolub



Ansehen auf

FAQ

Nothing happens after screwing the module on the base.

- The pin of the module is possibly not properly aligned with the notch of the base. Unscrew the module from the base, align correctly and screw it again.
- Memolub VISIO Series is not tightly screwed to the memo. Turn it clockwise until stop.
- There is possibly no battery inside the module. Insert 3x 1,5 VDC AA batteries to resolve the issue.
- There is possibly something obstructing the communication between the base and the module contacts. Unscrew the module from the base, remove any dust or obstacles from the base and the

module contacts and screw back together tightly.

The touchpad does not work after initialisation was completed successfully.

Your Memolub VISIO Series possibly initialised in an unstable environment. Unscrew the base from the module and screw again to reset the system. Wait until one expulsion is performed and you observe green lights, indicating the initialization is complete.

The red lights are blinking periodically.

- There is possibly a too high back pressure present in the system. Inspect your downstream piping to remove any clogging or jam. Activate the touchpad and check for at least 2 expulsions if the systems operate fine.
- There is possibly something obstructing the communication between the base and the module contacts. Unscrew the module from the base, remove any dust or obstacles from the base and the module contacts and screw back together tightly.
- The motor is broken. Replacement of the module is necessary.

The yellow lights are blinking periodically.

- There is possibly something obstructing the communication between the base and the module contacts. Unscrew the module from the base, remove any dust or obstacles from the base and the module contacts and screw back together tightly.
- The batteries are empty. Replacement of the battery pack is necessary.

The blue lights are blinking periodically.

- The cartridge is possibly out of grease. Replacement of the cartridge is necessary.
- The system is not primed. Prime the system using a manual grease pump.
- The system is operating out of its minimum and maximum temperature range. Please make sure the system is operating within the recommended temperature range.

REGULATORY INFORMATION

SYMBOL	DESCRIPTION
	This product is compliant with Directives 2006/42/EC (Machinery). The relevant Declaration of Conformity is available here [https://memolub.eu/assets/uploads/Support/Visio/DoC-CE-VISIO-HPS-2023.pdf].
	This product is compliant with UK regulations 2008 No. 1597 (Supply of Machinery). The relevant Declaration of Conformity is available here [https://memolub.eu/assets/uploads/Support/Visio/DoC-UKCA-VISIO-HPS-2023.pdf].
	This product is compliant with customs union technical regulation TR CU 010/2011 (safety of machines and equipment). The relevant Declaration of Conformity is available here [https://memolub.eu/assets/uploads/Support/Visio/DoC-EAC-VISIO-HPS-2023.pdf].
	The WEEE symbol is attached to the product in compliance with the EU directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE). It is intended to deter the improper disposal of this product and to promote reuse and recycling.
	The packaging material can be recycled. Please arrange for the environmental appropriate disposal of the packaging.