



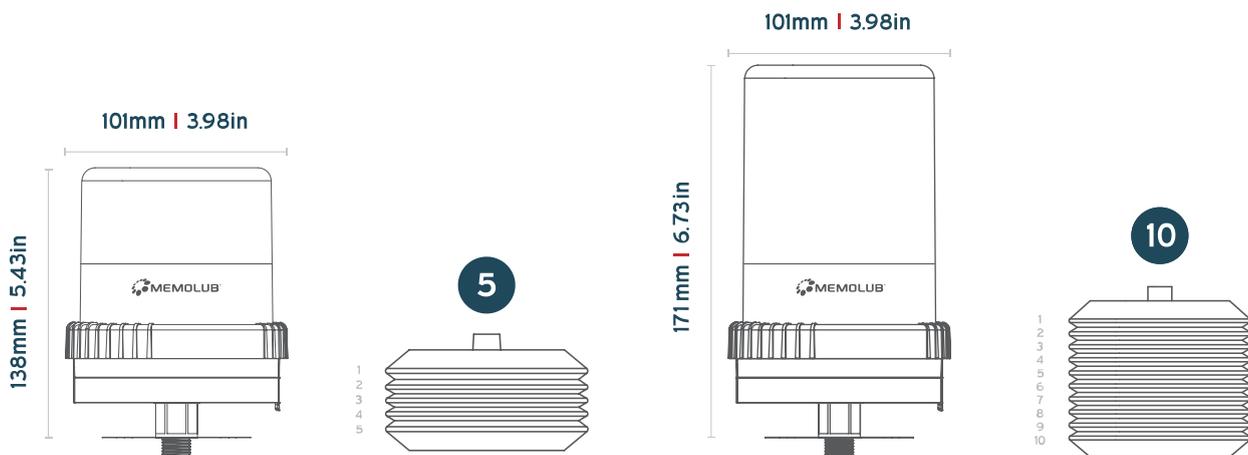
MEMOLUB CONNECT SERIES

KNOWLEDGE BASE

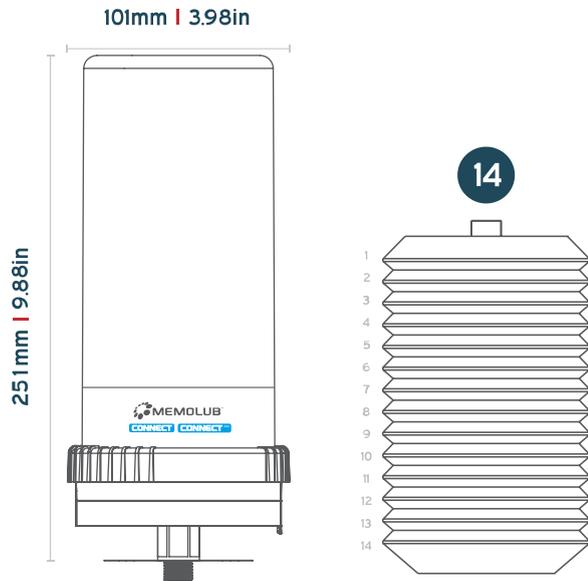
DIMENSIONS

120CC
Grease / Oil Cartridge
120cc | 4oz

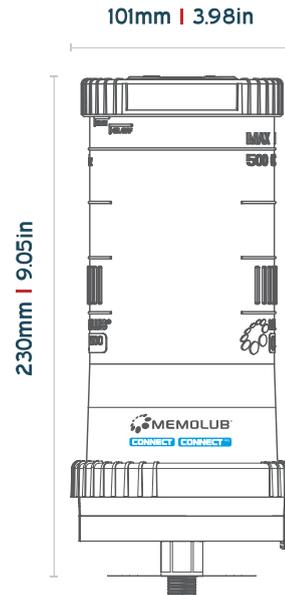
240CC
Grease / Oil Cartridge
240cc | 8.1oz



480CC
Grease / Oil Cartridge
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



SETTINGS & FEEDBACK

FREQUENCY SETTINGS

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 (Interface / App)				
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.

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

VOLUME SETTINGS [CM³/DAY]

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 (Interface / App)	0.3	0.6	0.9	1.2	1.8	2.4	3.6	7.2	14.4
		0.28	0.56	0.84	1.12	1.7	2.2	3.4	6.7	13.5
		0.26	0.52	0.79	1.04	1.62	2.1	3.15	6.3	12.6
2 		0.24	0.49	0.73	0.98	1.46	1.95	2.92	5.85	11.7
3 		0.22	0.45	0.67	0.9	1.35	1.8	2.7	5.4	10.8
4 		0.2	0.41	0.62	0.82	1.23	1.65	2.47	4.95	9.9
5 		0.18	0.37	0.55	0.74	1.1	1.5	2.2	4.5	9
6 		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.

COLOR	STATUS
	The pumping cycle was completed successfully, or a test run was initiated via the pushbutton.
	The batteries are low, or the lubricant cartridge is empty.
	The gearbox or motor is damaged or malfunctioning, or the pipe may be clogged.
	A data connection has been established successfully.

REMOTE INSTALLATION DISTANCES

TYPE OF INSTALLATION	MAXIMUM DISTANCE
Single point	8m
Multipoint with 2 outlets	6m
Multipoint with 4 outlets	

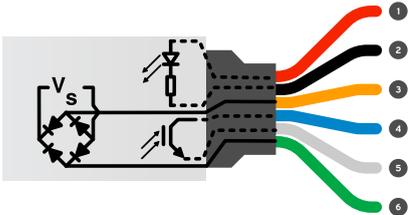
LEARNING PERIOD

The Memolub Connect 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.

CABLE

MEMOLUB CONNECT PRO

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

DESCRIPTION	
1. EXTERNAL INPUT (OPTOCOUPLER INPUT +)	
2. EXTERNAL INPUT (OPTOCOUPLER INPUT -)	
3. POWER SUPPLY + (24VAC/DC)*	
4. STATUS OUTPUT (OPTOCOUPLER COLLECTOR)	
5. STATUS OUTPUT (OPTOCOUPLER EMITTER)	
6. POWER SUPPLY - (0VDC)	

* Operating voltage ranges from 6 to 36 VDC

SPECIFICATIONS

GENERAL

	MEMOLUB® CONNECT PRO
Power Source	Battery / External
Voltage	4.5V DC (3x1.5V DC AA) OR 24V
Communication Protocol	LoRa-Wan + Bluetooth
Display	External (via app and cloud interface)
Short circuit protection	Yes
Stroke duration	8 seconds
Minimum stroke interval	15 minutes

LORA-WAN

	MEMOLUB® CONNECT PRO
Version	1.1.4
Supported Frequency Plans	EU863-870, AU915-928, US902-928,
Range (outdoor, line of sight)	1km*

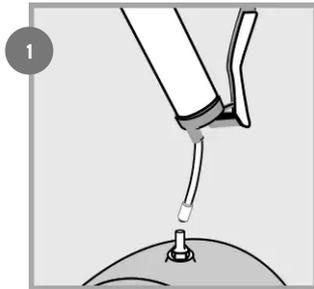
* Range based on field tests conducted in an urban environment using a gateway equipped with a 3 dBi antenna.

BLUETOOTH

	MEMOLUB® CONNECT PRO
Version	5.2
Frequency	2,4 GHz
Range (indoor, office environment)	30m
Range (outdoor, line of sight)	150m

INSTALLATION GUIDELINES

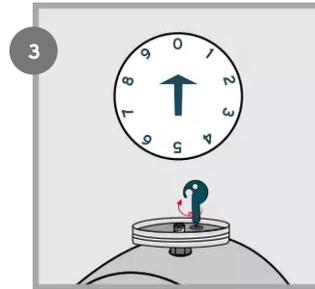
DIRECT INSTALLATION



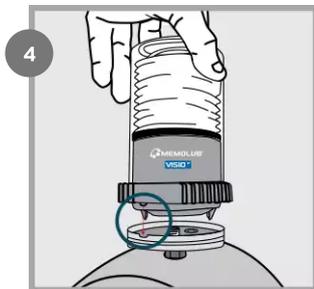
1 Prime lube point and remove nipple.



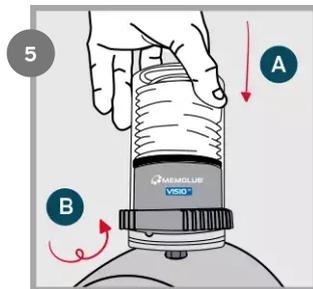
2 Install VISIO Base using a strong threadlocker (BSP 1/4).



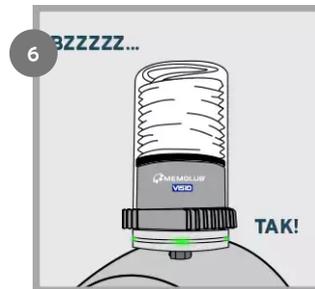
3 With setting key, choose wheel position according to "Settings" table above.



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

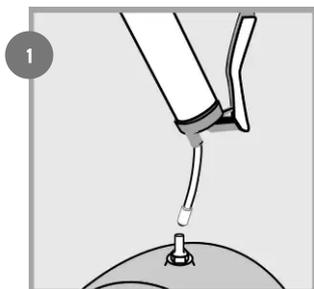


5 Screw tightly keeping the assembly aligned.

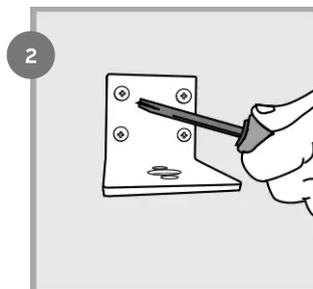


6 VISIO initializes, flashes each color on, and makes one expulsion. Green lights confirm normal operation.

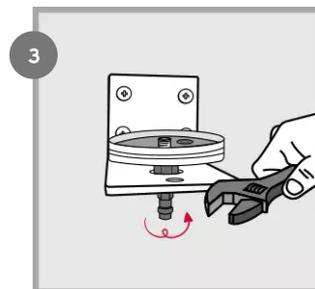
REMOTE INSTALLATION



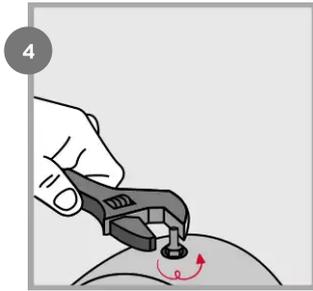
1 Prime lube point and remove nipple.



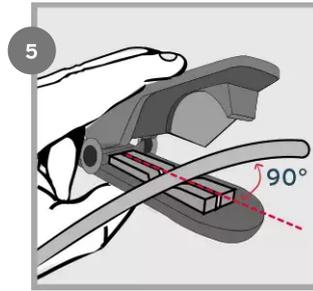
2 Secure the mounting bracket.



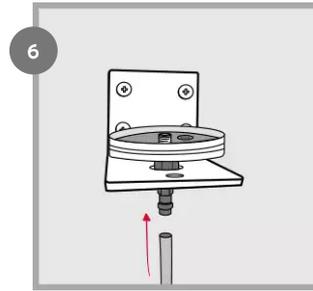
3 Install VISIO Base and F1/4 fitting on bracket using a strong threadlocker.



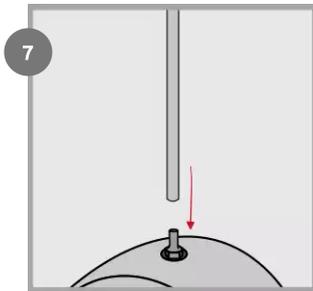
Install BSP 1/8 fitting on lube point



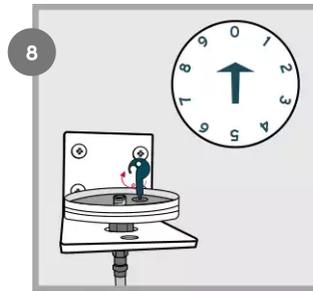
Cut hose to required size.



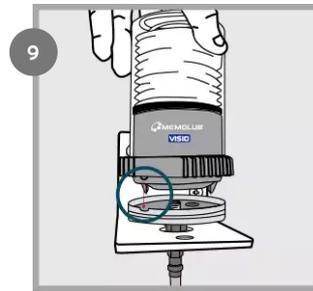
Insert hose into bracket's quick fitting.



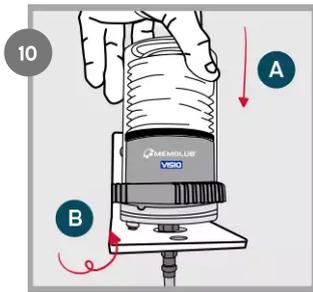
Insert hose into lube point's quick fitting.



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



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

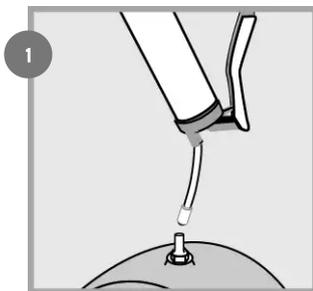


Screw tightly keeping the assembly aligned.

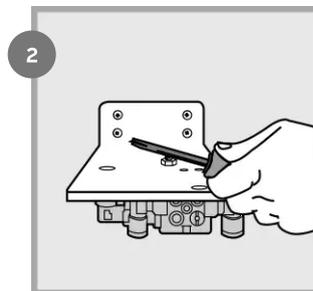


VISIO initializes, flashes each color on, and makes one expulsion. Green lights confirm normal operation.

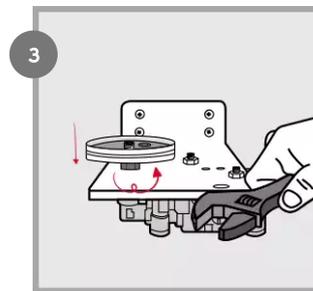
MULTIPOINT INSTALLATION



Prime lube point and remove nipple.



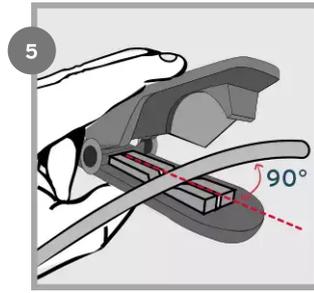
Secure the mounting bracket.



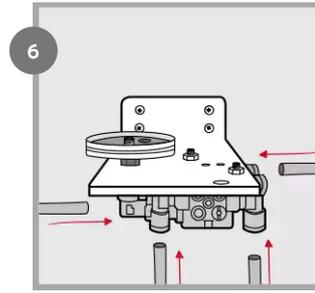
Install VISIO Base and F1/4 fitting on bracket using a strong threadlocker.



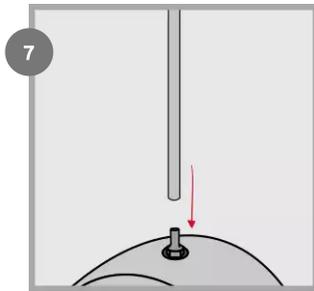
Install BSP 1/8 fitting on lube point.



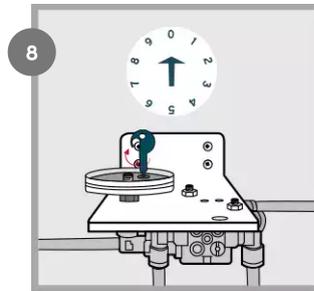
Cut the hoses to required size.



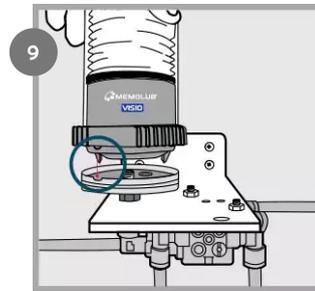
Insert hoses into bracket's quick fittings.



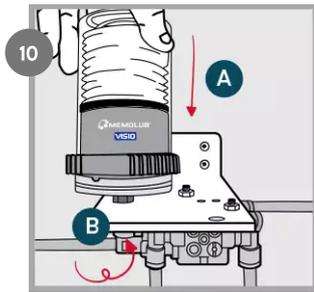
Insert hoses into lube points' quick fittings.



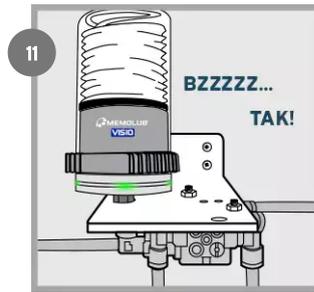
With setting key, choose wheel position according to "Settings" table above.



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



Screw tightly keeping the assembly aligned.



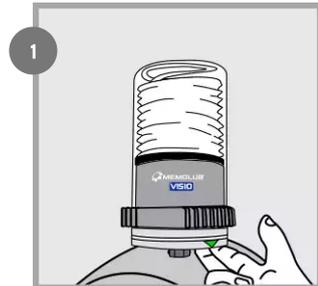
VISIO initializes, flashes each color on, and makes one expulsion. Green lights confirm normal operation.

CLOUD INTERFACE

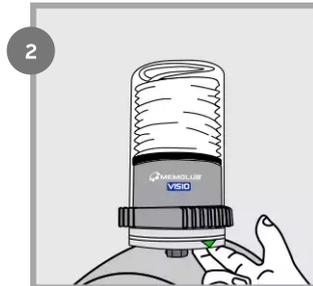
MOBILE APP

PUSH BUTTON

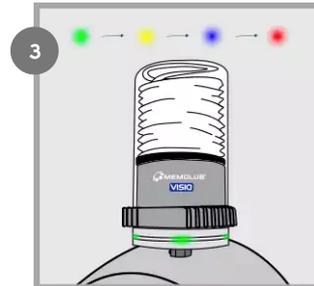
TEST YOUR MEMOLUB / FORCE EXPULSION



1
Locate the push button on the bottom of the memo



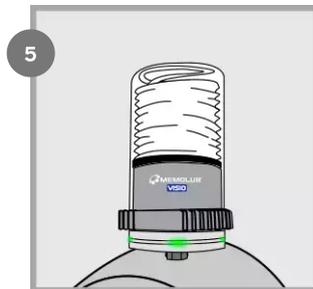
2
Push the button



3
VISIO initializes, flashing each color on successively.

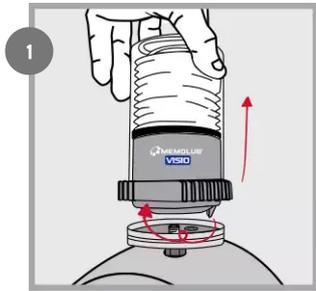


4
VISIO makes 1 expulsion.

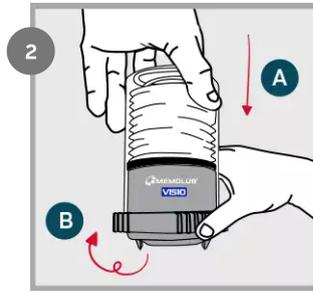


5
After scanning all parameters, VISIO flashes green lights in case of normal operation. For any other colors, please refer to the FAQ section.

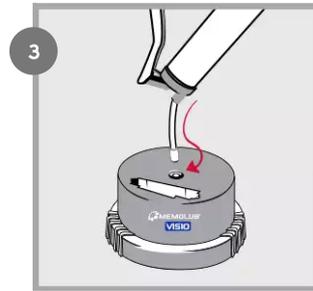
CARTRIDGE (RE)PLACEMENT GUIDELINES



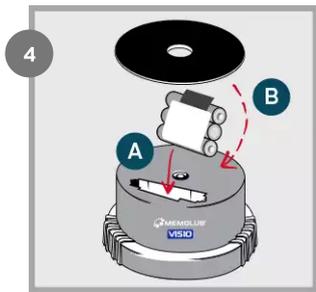
Remove VISIO Module from VISIO Base.



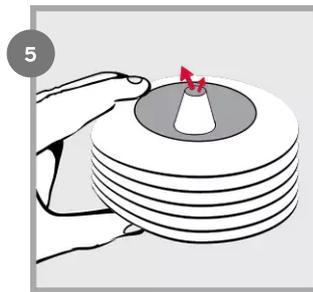
Open VISIO Module (fingers on ribs). Remove the used cartridge, if any.



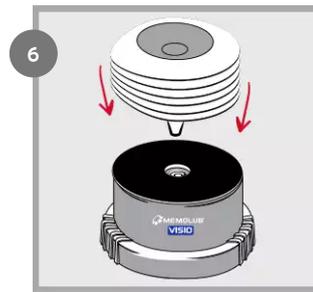
Prime VISIO Pump.



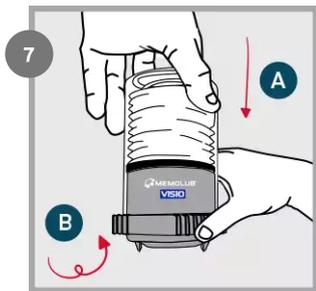
Insert new battery pack and seal. NOTE: the battery seal can be removed for 480cc cartridges



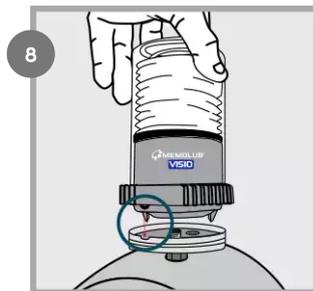
Squeeze air out of the cartridge.



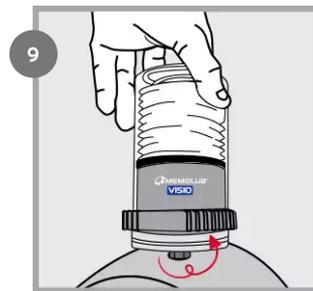
Replace the cartridge on VISIO Pump.



Close and lock VISIO Module (fingers on ribs).



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



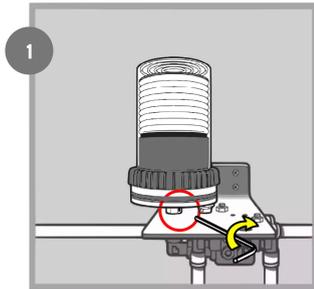
Screw tightly keeping the assembly aligned.



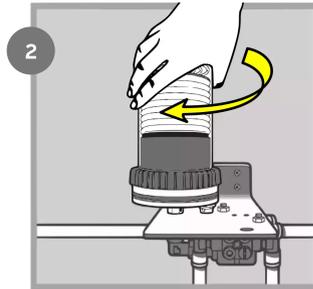
VISIO initializes, flashes each color on, and makes one expulsion. Green light confirms proper functioning.

EXTERNAL POWER CONNECTION

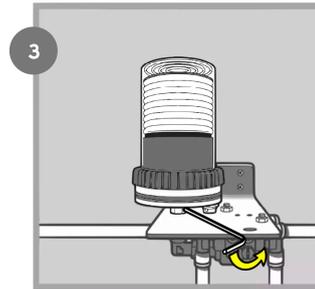
INSTALLING THE CONNECTOR (CONNECT PRO ONLY)



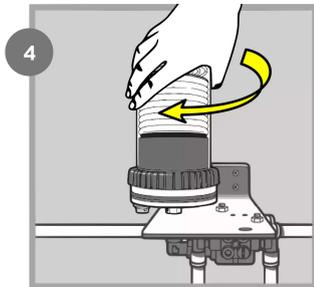
1
Locate the M4 set screw on the CONNECT PRO BASE rotary coupling. Screw it tightly.



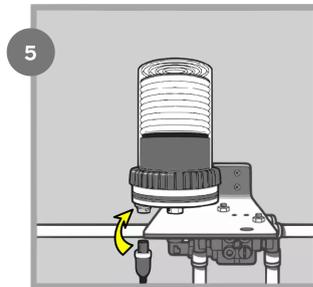
2
Screw tightly the CONNECT PRO pump & base on the bracket elbow



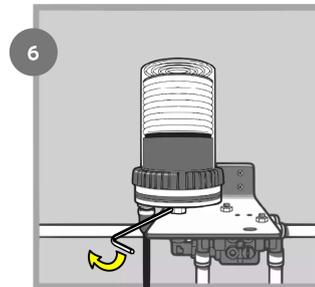
3
Release the rotary coupling by unscrewing the M4 screw.



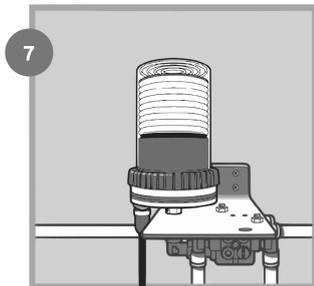
4
Rotate the CONNECT PRO pump & base assembly clockwise, until the connector socket is outside the bracket.



5
Check that the cable plug can engage properly on the connector socket



6
Keeping the plug engaged, secure the M4 set screw tightly.



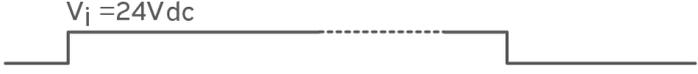
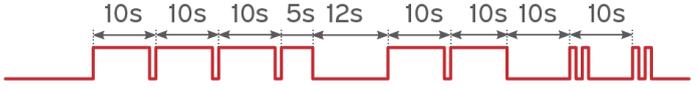
7
The rotary coupling is now set.
When disassembling/reassembling pump and base for maintenance purposes, the connector will always find the same place.

REMOTE CONTROL

INTERMITTENT MODE

MEMOLUB VISIO PRO	
DESCRIPTION	SIGNAL
INPUT SIGNAL (FROM CUSTOMER PLC/TIMER)	$5s < t_i < 17s, V_i = 24Vdc$ 
OUTPUT SIGNAL "BUSY" (TO CUSTOMER PLC)	$17s$ 
PUMP OUTLET (TO LUBRICATION)	$P_{max} = 25bars, V = 0.6cc$ 
OUTPUT SIGNAL "DEFAULT" (TO CUSTOMER PLC)	$10s \ 10s \ 10s$ 

CONTINUOUS MODE

MEMOLUB VISIO PRO	
DESCRIPTION	SIGNAL
INPUT SIGNAL (FROM CUSTOMER PLC/TIMER)	$V_i = 24Vdc$ 
OUTPUT SIGNAL "BUSY" (TO CUSTOMER PLC)	$17s$ 
PUMP OUTLET (TO LUBRICATION)	$P_{max} = 25bars, V=0.6cc$ 
OUTPUT SIGNAL "DEFAULT" (TO CUSTOMER PLC)	$10s \ 10s \ 10s \ 5s \ 12s \ 10s \ 10s \ 10s \ 10s$ 

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.
- VISIO Module is not tightly screwed to VISIO Base. 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 possibly initialized 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.