

AUTOMIST COMMISSIONING CHEAT SHEET

1) FIRST POWER UP, SET TIME AND DATE

AUTOMIST
Self Test 100%
v1.13 AP

AUTOMIST
Uncommissioned
hh:mm
YYYY-MM-DD

Unused (yellow solid)

Set Date
2024 - 03 - 25
BACK NEXT

Selection blinking

Configure date and time

Set Time
13 : 20
BACK SET

Selection blinking

Press RIGHT
goto 2)

2) UNCOMMISSIONED

AUTOMIST
Uncommissioned
09:35
2024-08-24

Unused (yellow solid)

Enter Commissioning Mode

Hold LEFT
and RIGHT for
10 seconds
goto 3)

3) COMMISSIONING STAGE 1 - ADDRESSING

COMMISSION 1/6
Total Heads: 0
- Poke Heads
EXIT NEXT

POKE: Unpaired (yellow pulse) to paired (green)

COMMISSION 1/6
Total Heads: X
- Poke Heads
EXIT NEXT

Paired (green)

Press RIGHT
goto 4)

Warning

If an exclamation mark is visible at any stage of commissioning, it will not allow to proceed to the next commissioning stage as there is an error in the system. Check Error ID on the home screen or Menu then Diagnostics from more details.

Example

COMMISSION 2/6
Head 3 failed:
- Not Replaced
BACK ⚠️

4) COMMISSIONING STAGE 2 - SELF TEST

COMMISSION 2/6
Testing Heads:
XX%
BACK

X = percentage complete

Untested (yellow solid)

COMMISSION 2/6
Testing Heads:
Passed
BACK NEXT

Tested (green solid)

Press RIGHT
goto 5)

Troubleshooting

COMMISSION 2/6
Testing Heads:
Failed
BACK

COMMISSION 2/6
Head X failed:
- REASON
BACK

X = head no.
REASON = e.g. Temp Sensor

Failed (red solid)

Check wiring
- RS485 error
- 24V bus error

Replace head
- Temp Sensor
- Servo Motor
- Not Replaced

5) COMMISSIONING STAGE 3 - FIRST ZONE (ZONE ID : 0)

COMMISSION 3/6
Total Zones: 0
- Trigger Zone
BACK

No alarm (yellow solid)

Trigger sensor(s)

Outside zone (red solid)

COMMISSION 3/6
Zone ID : 0
Heads : 0
DELETE

POKE: Outside zone (red) to in zone (green)

COMMISSION 3/6
Zone ID : 0
Heads : X
SAVE

Press RIGHT
goto 6)

6) COMMISSIONING STAGE 3 - NEXT ZONES (ZONE ID : 1 to 9)

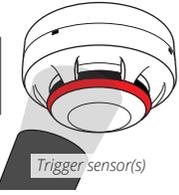
COMMISSION 3/6

Clearing Zones
- Please wait

BACK



Sensor clear



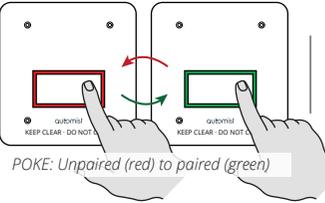
Trigger sensor(s)

COMMISSION 3/6

Zone ID : X
Heads : 0

DELETE

X = 1 to 9



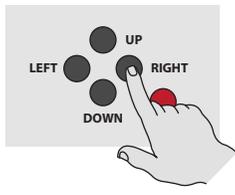
POKE: Unpaired (red) to paired (green)

COMMISSION 3/6

Zone ID : 0
Heads : X

SAVE

X = no. of paired heads = no. of green flashes



UP
LEFT RIGHT
DOWN

Repeat process until all heads are paired to at least one zone, then press RIGHT goto 7)

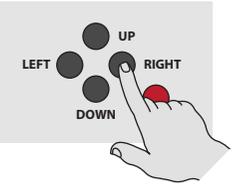
7) COMMISSIONING STAGE 3 - ZONES SET

COMMISSION 3/6

Total Zones: X
- Trigger Zone

BACK NEXT

X = Zones Created



UP
LEFT RIGHT
DOWN

Press RIGHT goto 8)

COMMISSION 3/6

Missing EOL!
Alarm Input X

BACK

X = alarm no.

Troubleshooting

⚠ Add EOL resistor

Smoke sensor is missing an end of line resistor

8) COMMISSIONING STAGE 4 - FLOW TEST

COMMISSION 4/6

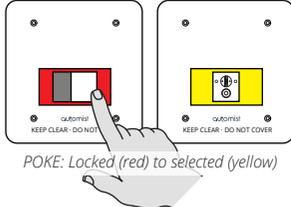
Flow Test:
0 / X

BACK NEXT

X = no. of heads



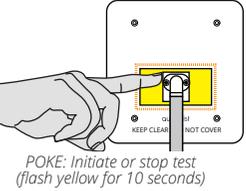
Untested (red solid)



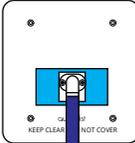
POKE: Locked (red) to selected (yellow)



Add test hose



POKE: Initiate or stop test (flash yellow for 10 seconds)



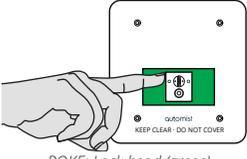
Flow (blue solid)



Test over (green)



Remove test hose



POKE: Lock head (green)

Repeat process until every head has been flow tested and all are green, then goto 9)

9) COMMISSIONING STAGE 4 - FLOW TEST SUMMARY

COMMISSION 4/6

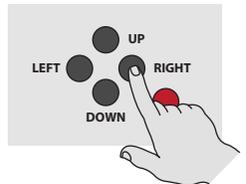
Flow Test:
X / X

BACK NEXT

X = no. of heads



Tested (green solid)



UP
LEFT RIGHT
DOWN

Press RIGHT goto 10)

10) COMMISSIONING STAGE 5 - DRAIN PIPES

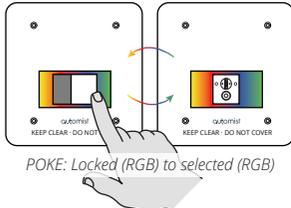
COMMISSION 5/6

- Drain Pipes

BACK NEXT



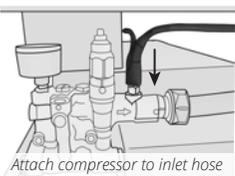
Locked (RGB)



POKE: Locked (RGB) to selected (RGB)



Add test hose



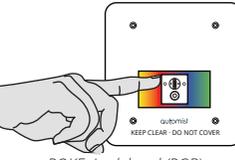
Attach compressor to inlet hose



Pump air (RGB)



Remove test hose



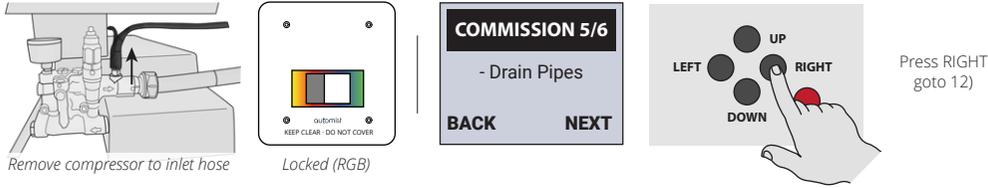
POKE: Lock head (RGB)



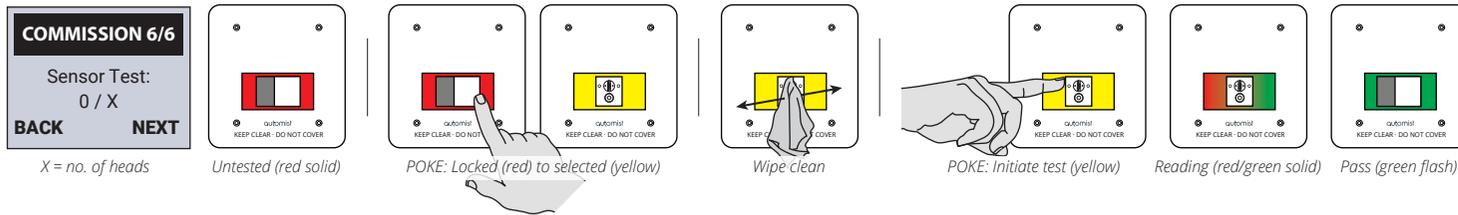
Locked (RGB)

Repeat process until every head has been drained, then goto 11)

11) COMMISSIONING STAGE 5 - REMOVE COMPRESSOR



12) COMMISSIONING STAGE 5 - CLEAN SENSOR

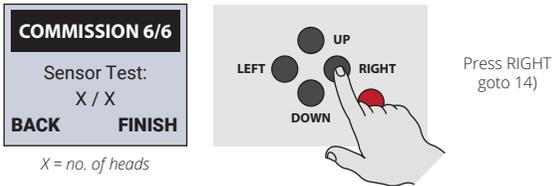


Repeat process until every head has been tested and all are green, then goto 13)

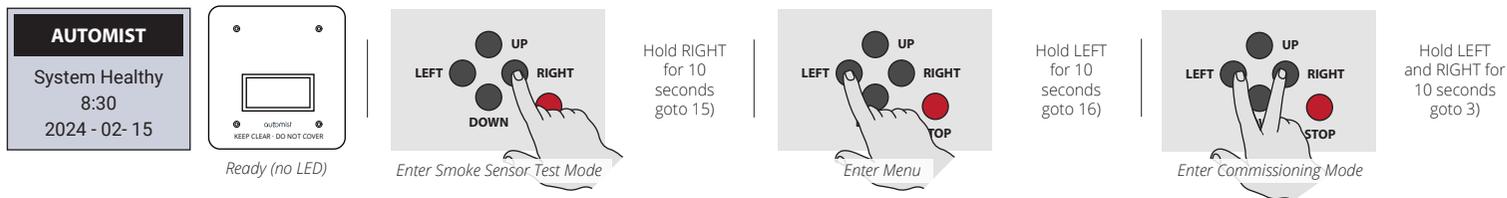
Troubleshooting

If head doesn't see sufficient temperature difference, it will read the temperature indefinitely. This process can be interrupted by poking the current which will return to locked red or another head.

13) COMMISSIONING STAGE 5 - CLEAN SENSOR SUMMARY



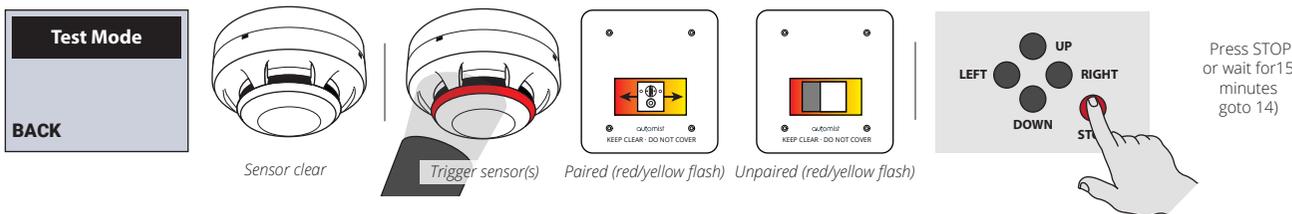
14) SYSTEM HEALTHY



Warning

You can only enter commissioning mode within 60 minutes of the system powering on, this is to avoid unwanted uncommissioning.

15) SMOKE SENSOR TEST MODE



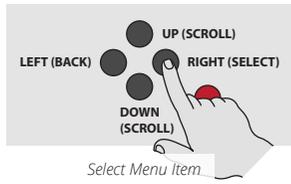
Warning

The spray head will complete 2 sweeps during the test. After the test is complete ensure the sensor is clear and the spray head is not scanning before leaving this mode.

Troubleshooting

If during the smoke sensor test mode, the incorrect spray heads are scanning, reconfigure the zones in commissioning stage 3.

16) MENU



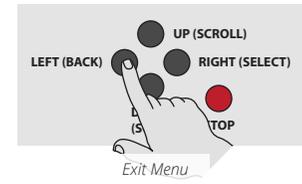
Press RIGHT to goto Menu Item (see table right)

Menu Item

X = Menu Item

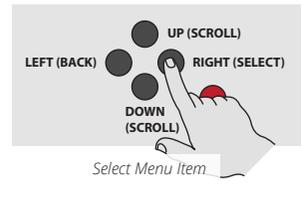
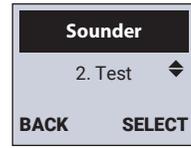
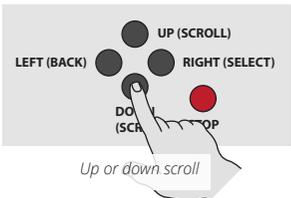
- 1. Sounder
- 2. Time
- 3. Relays
- 4. Diagnostic
- 5. Version

Goto 17)
Goto 18)
Goto 19)
Goto 20)
Goto 21)



Press LEFT goto 14)

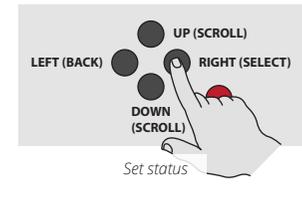
17) SOUNDER



Toggle On / Off

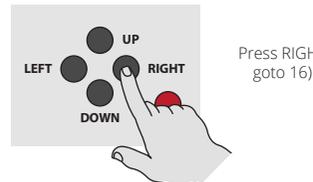
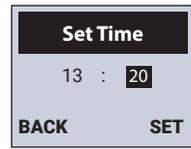
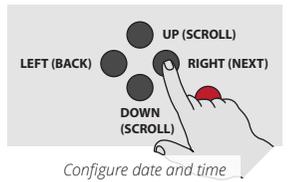
Menu Items

- 1. Enable Sounder: On / Off UP/DOWN
- 2. Test Sounder: On / Off UP/DOWN



Press RIGHT goto 16)

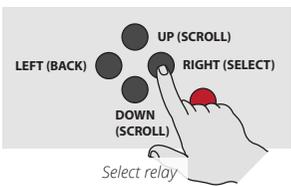
18) SET TIME



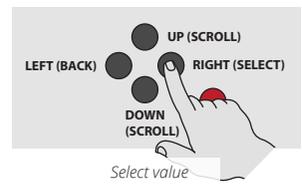
Selection blinking

Selection blinking

19) CONFIGURE RELAYS



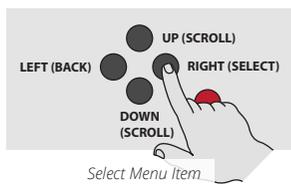
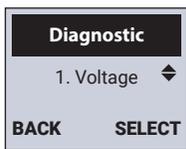
X = relay no. = 1, 2 or 3



X = 0, 1 or 2

Press RIGHT goto 16)

20) DIAGNOSTIC



Press RIGHT to goto Menu Item (see table right)

Menu Item

X = Menu Item

- 1. Voltage
- 2. Current
- 3. Power
- 4. Spray Head
- 5. Alarms
- 6. Motor
- 7. Battery
- 8. Display
- 9. Errors

1 Voltage, 2 Current, or 3 Power...

Input	RS485 Mid
24V Bus	RS485 Bus
12V Bus	Sounder
Battery	Dir. Alarm 1
Float Target	Dir. Alarm 2
Battery Drop	Dir. Alarm 3
2.5 Ref	Dir. Alarm 4
HV 5V Rail	Dir. Alarm 5
Gnd. Fault Det	

4. Spray Head

Head Select

Spray Head: **X**

BACK **SELECT**

RS485 Resp. Centre Temp.
Set Angle Bad Pixels
Read Angle Sensor Errors
Poke Detect RS485 Success
Poke Count RS485 Fails
Servo Current Errors
Ambient Temp. RS485 Comms

X = spray head no. = 0 - 9

4. Spray Head / Poke Count

Diag. Head: 6

Pokes Count: **X**

BACK

X = no. of poked spray heads

5. Alarms

Diag. Alarms

Dir. Alarm **X**:
23.617 V

BACK

X = Alarm no. = 1 - 5

6. Motor

Diag. Motor

Motor Status:
Healthy

BACK

Motor: mOhm
Motor Test
Mains Monitor
RMS Ch0/Ch1
Frequency
HV 5V Rail

7. Battery

Diag. Battery

Power source:
Mains

BACK

Health Connected
Is Charging Test
Temp Voltage
Float Target

12V Bus 24V Bus
Input 2.5 Ref
Battery Drop
Input Current
Ch./Disch.

PM 3V3 Source

8. Display

Diag. Display

LED Driver:
Healthy

BACK

X = Alarm no. = 1 - 5

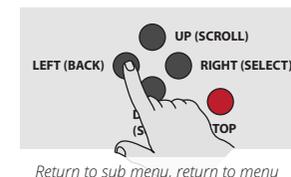
9. Errors

Diag. Error

NO_ERROR

BACK

See Troubleshooting Section of the DIOM for a full list of the error codes.



Press LEFT goto 16)

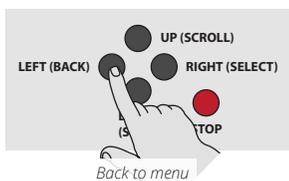
21) VERSION

0385_AP

1. 13-0-99e119e

BACK

Example

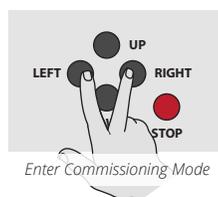


Press LEFT goto 16)

22) CLEARING THE COMMISSIONING MEMORY

AUTOMIST

System Healthy
8:30
2024 - 02- 15



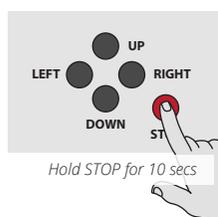
Hold LEFT and RIGHT for 10 seconds

COMMISSION 1/6

Total Heads: **X**
- Poke Heads

EXIT **NEXT**

X = no. of heads



COMMISSION 1/6

Total Heads: **0**
- Poke Heads

EXIT **NEXT**

Beep to indicate reset

Goto 3)

⚠ Warning

You must power cycle the system by switching off the AC power supply, waiting for 5 seconds and reconnecting before attempting to clear the commissioning. This must be performed within 60 minutes of the power loss.

The system must be fully commissioned after the controllers memory has been defaulted.

FEEDBACK WELCOME

If you have any suggestions of how to improve this cheat sheet or ideas of things to add please email technical@plumis.com. Thanks!