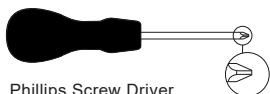


LA822 HUBGRADE MODEM

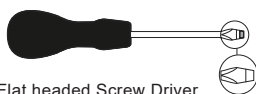
INST41310 VERSION 02 1/21

Part No. LA822

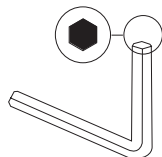
ITEMS NOT SUPPLIED



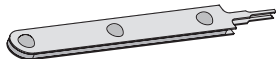
Phillips Screw Driver



Flat headed Screw Driver



6mm Allen Key



MOLEX Removal Tool

HEALTH & SAFETY NOTES



Please use Personal Protective Equipment when installing laboratory equipment. Wearing sterile gloves to avoid contamination.



INSTALLED BY A COMPETENT PERSON, SERVICE ENGINEER OR FACILITIES MANAGER.



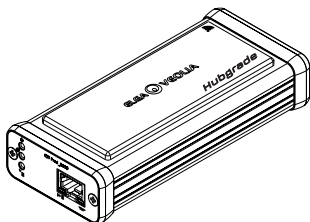
WARNING! Ensure the power supply is fully disconnected before installing LA822 HUBGRADE Modem.



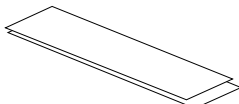
WARNING! Ensure that the power supply cannot come into contact with water.

SUPPLIED PARTS LIST

1: 1 X LA822 Hubgrade Modem



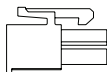
2: 1 X Velcro Fixing Tabs



3: 1 X Magnet



4: 1 X 2 Way 1 Row Male Mini Fit Connector

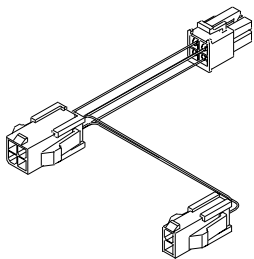


5: 1 X Jumper



SUPPLIED PARTS LIST CONTINUED

6: 1 X Quest and Flex Bridging Cable - SP1227 (100mm)

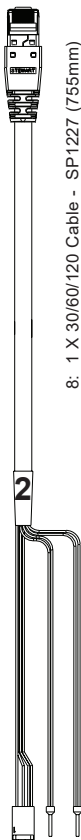


WARNING!

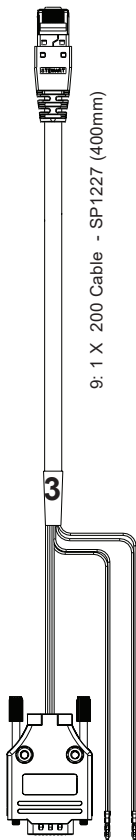
Brown_White cables are always 0V,
Blue_White cables are always +24V



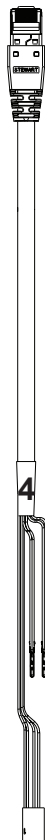
7: 1 X 15/30 Cable - SP1227 (470mm)



8: 1 X 30/60/120 Cable - SP1227 (755mm)

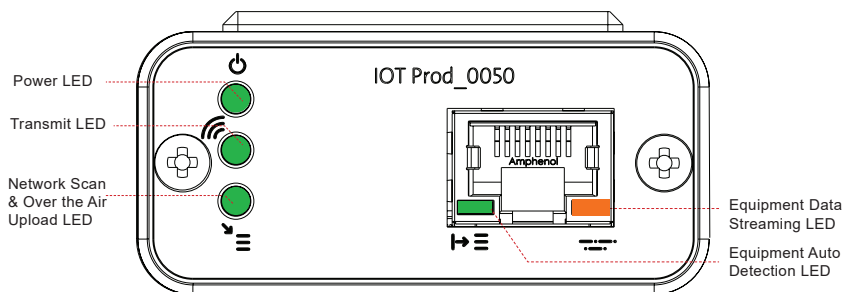


9: 1 X 200 Cable - SP1227 (400mm)



10: 1 X Quest and Flex - Chorus Reservoir - Chorus Dispensers Cable - SP1227 (650mm)

LA822 HUBGRADE MODEM LED FUNCTIONS



'Power LED' (GREEN - Status - Fixed)
Indicates power is connected to the modem.



'Transmit LED' (GREEN - Status - Flashing)
Modem is attached to a cellular network and sending processed data.



'Network scan & Over the Air upload LED'
(Green - Status - fixed for network scanning / Flashing for OTA)

Static at Power ON indicates there is a best network research. Once correctly connected to a relevant cellular network the LA822 modem is capable of receiving product software updates automatically.



'Equipment Auto Detection LED' (GREEN - Status - Fixed / Flashes during restart, only)
Automatically selects which equipment the modem is connected to.



'Equipment Data Streaming LED' (AMBER - Status - Flashing)
Successful data output

Main Product Software and Compatibility

Note: Please ensure all of your products are up to date and using the latest software.

To find the software version of your existing system, simply turn the power off by the wall and back on again and the current software version number will be displayed in the bottom right-hand corner of the screen. If your software version number is older than the one listed on the website at www.elgalabwater.com/customize, or on the partnernet then please perform a software update.

Products	Software	Compatibility
PURELAB Chorus	Available to download via website	LA822 can upload data from up to ten modular products on one system configuration
PURELAB Flex	Available to download via website	LA822 can upload data from one product
PURELAB Quest	Available to download via website	LA822 can upload data from one product
MEDICA Pro S	Available to download via the Partnernet	LA822 can upload data from one product
MEDICA Pro R/ RE 30/60/120	Available to download via the Partnernet	LA822 can upload data from one product
MEDICA EDI 60/120	Available to download via the Partnernet	LA822 can upload data from one product
MEDICA LPS	Available to download via the Partnernet	LA822 can upload data from one product
MEDICA EDI 15/30	Available to download via the Partnernet	LA822 can upload data from one product
MEDICA R 7/15	Available to download via the Partnernet	LA822 can upload data from one product
MEDICA R200 R200	Available to download via the Partnernet	LA822 can upload data from one product
CENTRA 60/120	Available to download via the Partnernet	LA822 can upload data from one product
CENTRA S/ R200	Available to download via the Partnernet	LA822 can upload data from one product
CENTRA RDS	Available to download via the Partnernet	LA822 can upload data from one product
BIOPURE R200	Available to download via the Partnernet	LA822 can upload data from one product
SERVICE TEST File	https://www.youtube.com/watch?v=5Vz5jYT7vSI&feature=youtu.be	To enable the remote logging function on relevant products create and add the service.test file onto a blank USB and inserting into the system. (Only use where applicable)

IS/30L PRODUCTS

Required Parts:

- 1: 1 X LA822 Hubgrade Modem
- 2: 1 X Velcro Fixing Tabs
- 5: 1 X Jumper
- 7: 1 X 15/30 Cable

BIOPURE MEDICA MEDICA-R

Model Variants From:

BIOPURE - MB015BPM1
BIOPURE - MB015XXM1

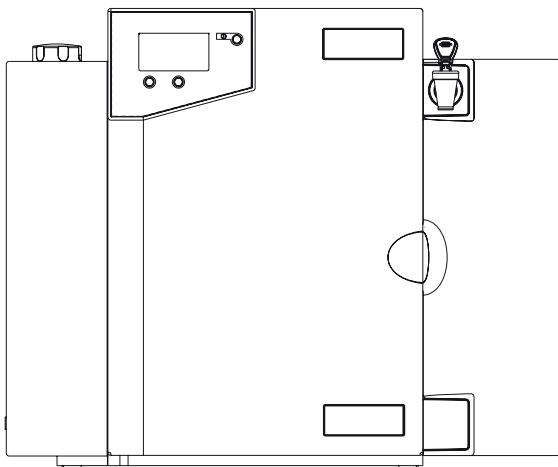
MEDICA - MD015BPM2
MEDICA - MD015XXM2

MEDICA - ME015BPM1
MEDICA - ME015XXM1

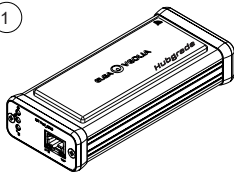
MEDICA - MR015BPM1
MEDICA - MR015XXM1

MEDICA - MRX030BPM1

Previous product
mark numbers are not
compatible

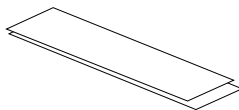


1



1 X LA822 Hubgrade Modem

2



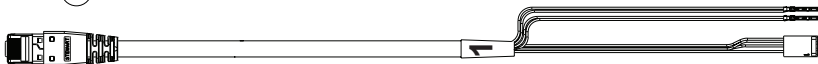
1 X Velcro Fixing Tabs

5



1 X Jumper

7

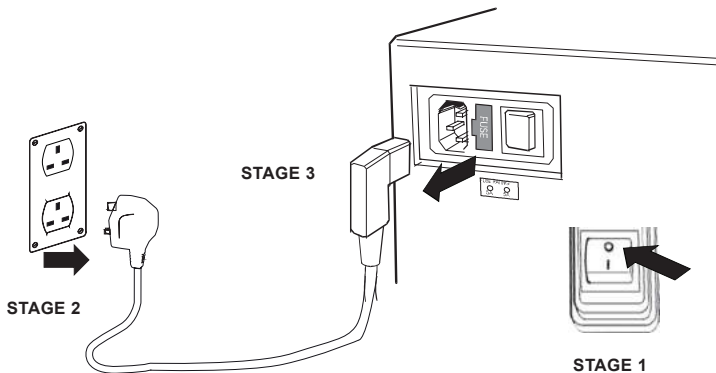


1 X 15/30 Cable - SP1227 (470mm)

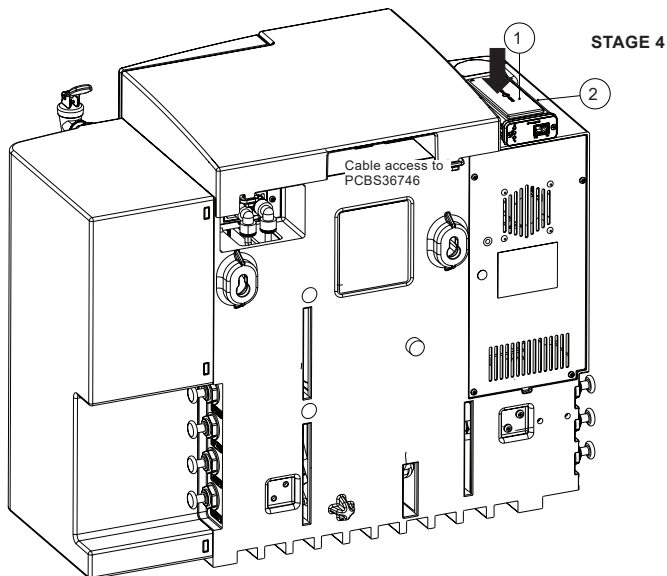
I. DISCONNECT THE POWER SUPPLY

⚠ WARNING! Ensure that the power supply cable cannot come into contact with water.

1. Switch OFF the electrical supply and unplug the power supply cable as shown below.

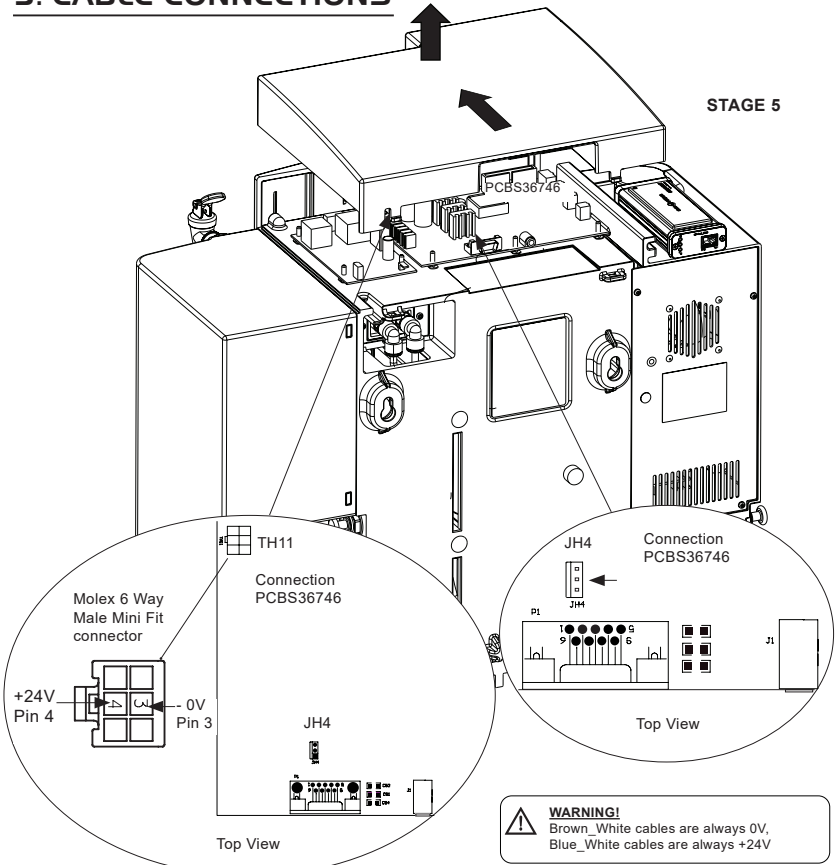


2. POSITIONING



3. CABLE CONNECTIONS

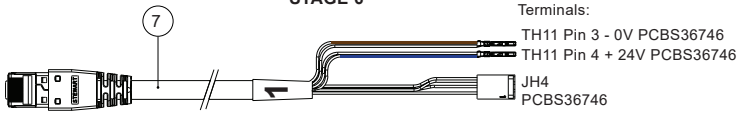
STAGE 5



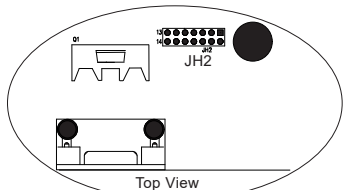
STAGE 6

Terminal:

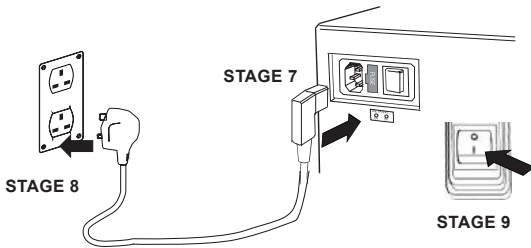
Modem
RJ45 Port



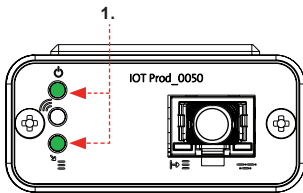
FOR DATA FLOW ACTIVATION -
Use the supplied Jumper to link pins 5&6 on JH2



4. RECONNECT THE POWER SUPPLY



5. STARTING SEQUENCE & LED IDENTIFICATION

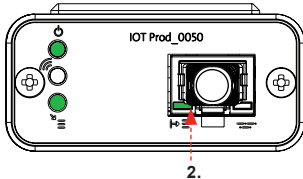


STAGE 10

1. 'Power LED' and 'Network scan LED'
(GREEN - Status - Fixed) and (Green - Status - fixed for network scanning)

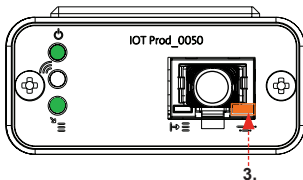
Indicating power is connected to the modem and scanning for a cellular network.

Transition approx 2 seconds



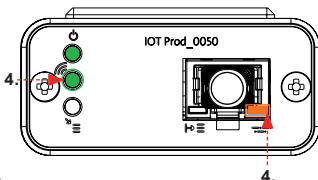
2. 'Equipment Auto Detection LED'
(GREEN - Status - Fixed / Flashes during restart, only)
Automatically selects which equipment / product the modem is connected to.

Transition approx 1 to 10 seconds



3. 'Equipment Data Streaming LED'
(AMBER - Status - Flashing)
Processed data stream of the equipment treated by the modem.

Transition up to 18 minutes,
allowing you time to call your local Hubgrade admin.



4. 'Transmit LED' & 'Equipment Data Streaming LED'
(Green - Status - Flashing) & (Amber - Status - Flashing)

Green LED is flashing every second when connected to 4GM network and every 2 seconds when connected to 2G network.

Amber LED is flashing every second for a Biopure/Medica configuration.

COMPLETED INSTALLATION - CONTACT YOUR HUBGRADE ADMIN

30/60/120L PRODUCTS

BIOPURE CENTRA MEDICA

Required Parts:

- 1: 1 X LA822 Hubgrade Modem
- 2: 1 X Velcro Fixing Tabs
- 8: 1 X 30/60/120 Cable

Model Variants
From:

MEDICA - MP030RBM1
MEDICA - MP030REM1

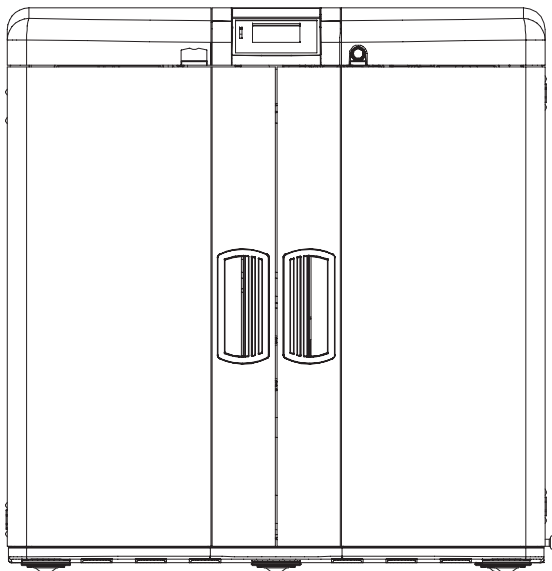
BIOPURE - MB060XXM1
BIOPURE - MB120XXM1

CENTRA - CN120RDM1
CENTRA - CN060RDM1

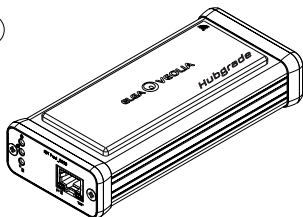
MEDICA - MP060RBM1
MEDICA - MP060REM1
MEDICA - MP060RXM1

MEDICA - MP120RBM1
MEDICA - MP120REM1
MEDICA - MP120RXM1

Previous product
Mark numbers are not
compatible

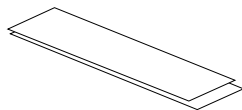


1



1 X LA822 Hubgrade Modem

2



1 X Velcro Fixing Tabs

8

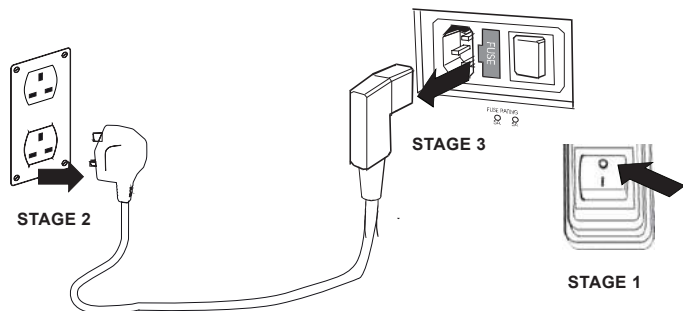


1 X 30/60/120 Cable - SP1227 (755mm)

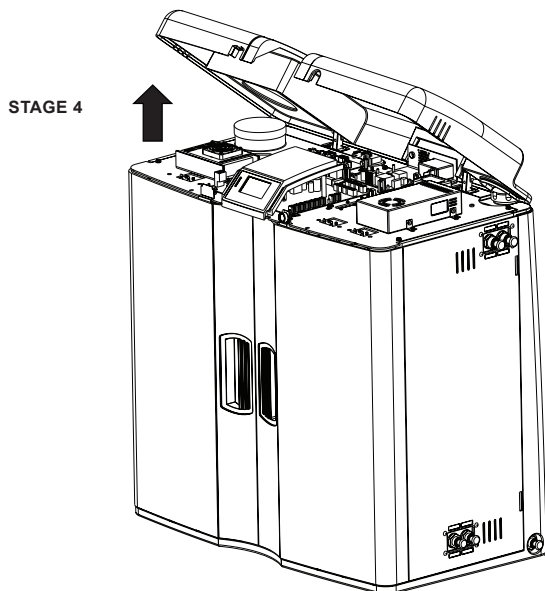
I. DISCONNECT THE POWER SUPPLY

⚠ WARNING! Ensure that the power supply cable cannot come into contact with water.

1. Switch OFF the electrical supply and unplug the power supply cable as shown below.

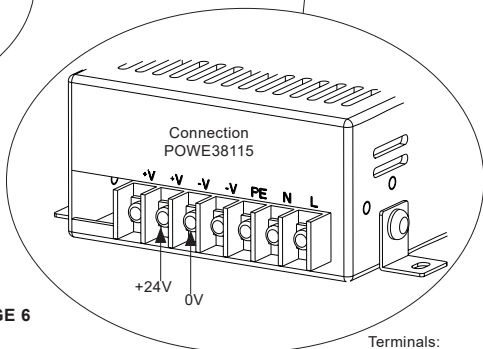
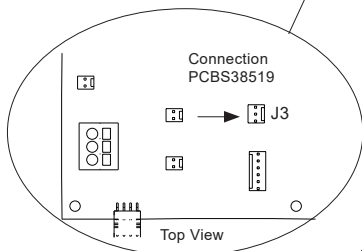
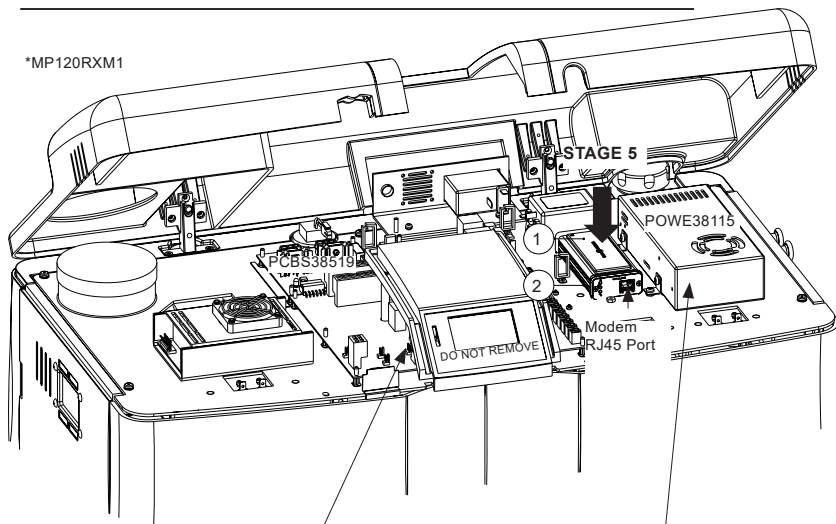


2. OPENING THE ACCESS PANEL



3. POSITIONING AND CABLE CONNECTIONS

*MP120RXM1

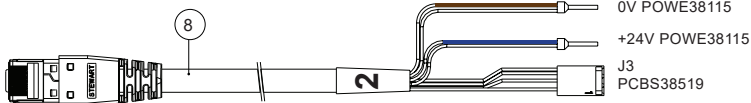


WARNING!
Brown_White cables are always 0V,
Blue_White cables are always +24V

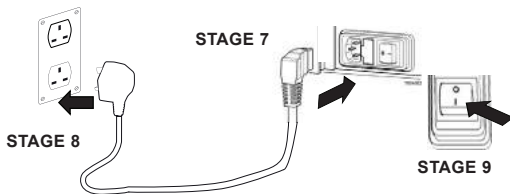
STAGE 6

Terminal:

Modem
RJ45 Port

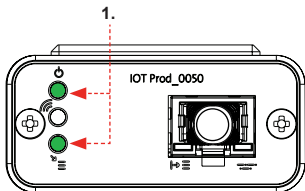


4. RECONNECT THE POWER SUPPLY



5. STARTING SEQUENCE & LED IDENTIFICATION

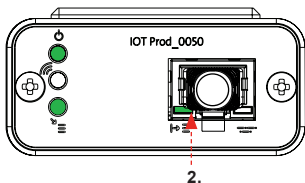
STAGE 10



1. **'Power LED' and 'Network scan LED'**
(GREEN - Status - Fixed) and (Green - Status - fixed for network scanning)

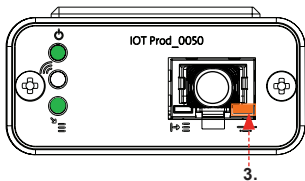
Indicating power is connected to the modem and scanning for a cellular network.

Transition approx 2 seconds



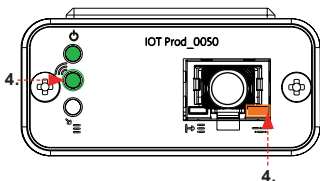
2. **'Equipment Auto Detection LED'**
(GREEN - Status - Fixed / Flashes during restart, only)
Automatically selects which equipment / product the modem is connected to.

Transition approx 1 to 10 seconds



3. **'Equipment Data Streaming LED'**
(AMBER - Status - Flashing)
Processed data stream of the equipment treated by the modem.

Transition up to 18 minutes,
allowing you time to call your local Hubgrade admin.



4. **'Transmit LED' & 'Equipment Data Streaming LED'**
(Green - Status - Flashing) & (Amber - Status - Flashing)

Green LED is flashing every second when connected to 4GM network and every 2 seconds when connected to 2G network.

Amber LED is flashing every second for a Biopure/Medica configuration.

COMPLETED INSTALLATION - CONTACT YOUR HUBGRADE ADMIN

200L PRODUCTS

CENTRA-R BIOPURE MEDICA-R

Required Parts:

- 1: 1 X LA822 Hubgrade Modem
- 2: 1 X Velcro Fixing Tabs
- 5: 1 X Jumper
- 9: 1 X 200 Cable

Model Variants

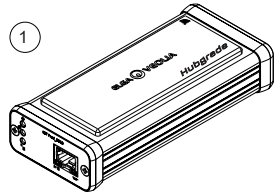
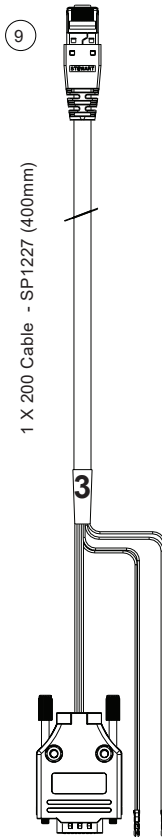
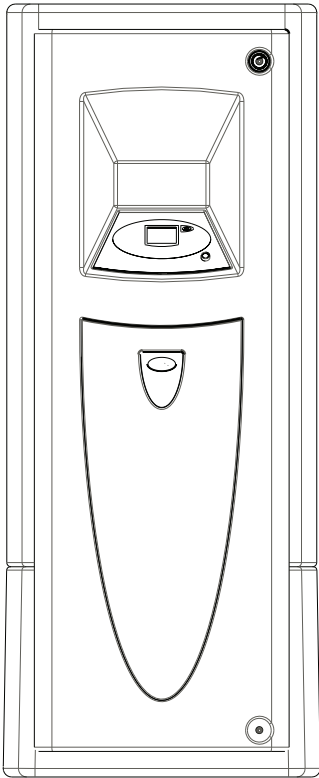
From:

- CENTRA - CN200RDM1
- CENTRA - CNHFRR2M1
- CENTRA - CNHFVR2M1
- CENTRA - CNHFVRDM1
- CENTRA - CNXXRDM1

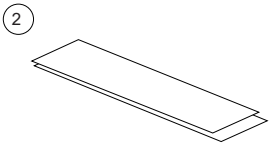
- BIOPURE - MB200XXM1
- BIOPURE - MB300XXM1

- MEDICA - MR200DSM1

Previous product
mark numbers are
not compatible



1 X LA822 Hubgrade Modem



1 X Velcro Fixing Tabs

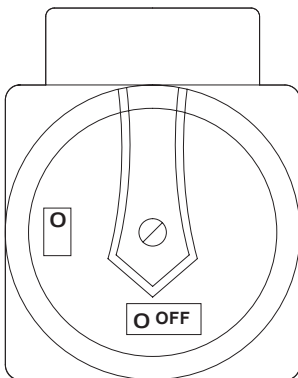


1 X Jumper

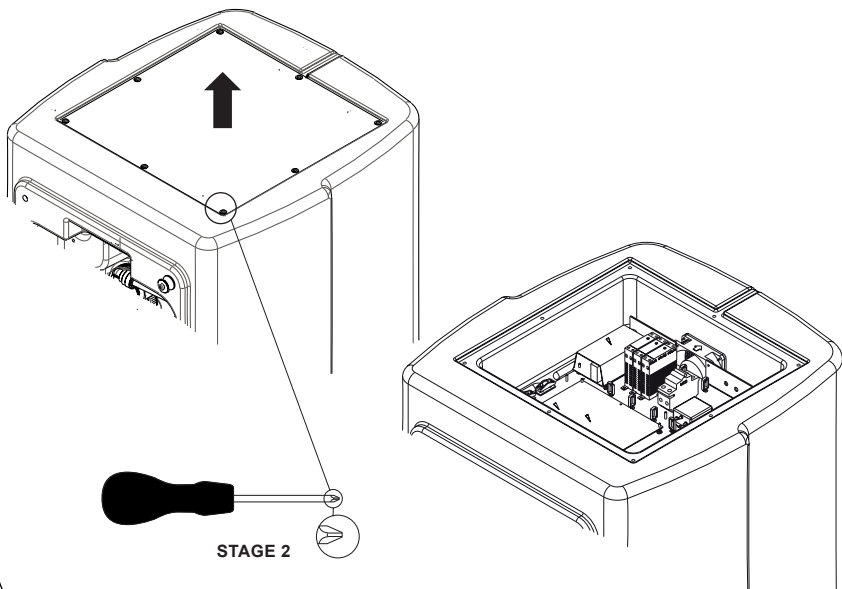
I. ISOLATE THE POWER SUPPLY

1. Isolate the mains power supply by Switching OFF the Isolating switch.

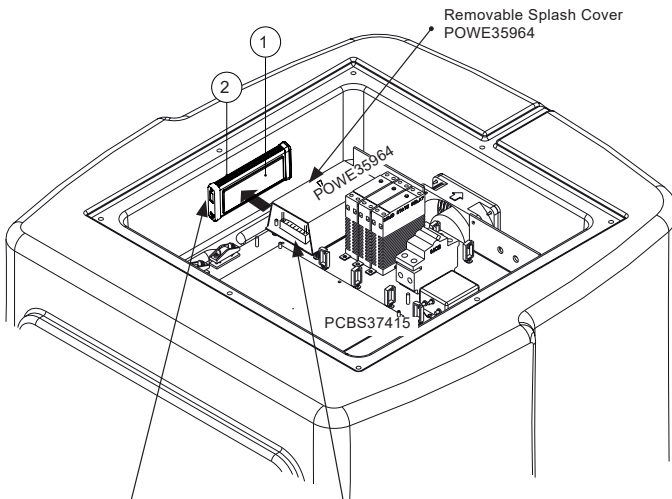
STAGE 1



2. REMOVING THE ACCESS PANEL



3. POSITIONING & CABLE CONNECTIONS



STAGE 3

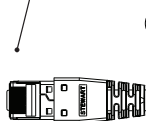


WARNING!

Brown_White cables are always 0V,
Blue_White cables are always +24V

Terminal:

Modem
RJ45 Port

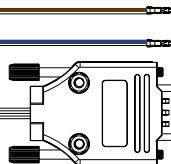


Terminals:

0V pin7 or closest to
black cable POWE35964

+24V pin2 or closest to
red cable POWE35964

P2 serial port
PCBS37415



**FOR DATA FLOW ACTIVATION - Use the supplied jumper to link pins 9&10 on JP2
PCBS37415**

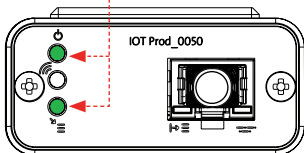
4. RECONNECT THE POWER SUPPLY

STAGE 4



5. STARTING SEQUENCE & LED IDENTIFICATION

1.

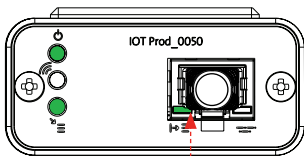


STAGE 5

1. **'Power LED' and 'Network scan LED'**
(GREEN - Status - Fixed) and (Green - Status - fixed for network scanning)

Indicating power is connected to the modem and scanning for a cellular network.

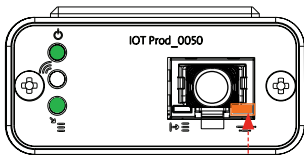
Transition approx 2 seconds



2.

2. **'Equipment Auto Detection LED'**
(GREEN - Status - Fixed / Flashes during restart, only)
Automatically selects which equipment / product the modem is connected to.

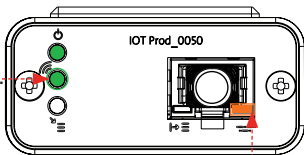
Transition approx 1 to 10 seconds



3.

3. **'Equipment Data Streaming LED'**
(AMBER - Status - Flashing)
Processed data stream of the equipment treated by the modem.

Transition up to 18 minutes,
allowing you time to call your local Hubgrade admin.



4.

4.

4. **'Transmit LED' & 'Equipment Data Streaming LED'**
(Green - Status - Flashing) & (Amber - Status - Flashing)

Green LED is flashing every second when connected to 4GM network and every 2 seconds when connected to 2G network.

Amber LED is flashing every second for a Biopure/Medica configuration.

COMPLETED INSTALLATION - CONTACT YOUR HUBGRADE ADMIN

CHORUS RESERVOIR

PURELAB Chorus

Required Parts:

- 1: 1 X LA822 Hubgrade Modem
- 2: 1 X Velcro Fixing Tabs
- 4: 1 X 2 Way 1 Row Mini-Fit Connector
- 10: 1 X Chorus Reservoir Cable

**2 RO/DI,3 RO,
I COMPLETE AND 2+**

Model Variants
From:

Chorus 2 - PC210DIXXM3
Chorus 2 - PC210DIBPM3
Chorus 2 - PC220DIXXM3
Chorus 2 - PC220DIBPM3

Chorus 3 - RO310XXM3
Chorus 3 - RO310BPM3
Chorus 3 - RO320XXM3
Chorus 3 - RO320BPM3
Chorus 3 - RO330XXM3
Chorus 3 - RO330BPM3

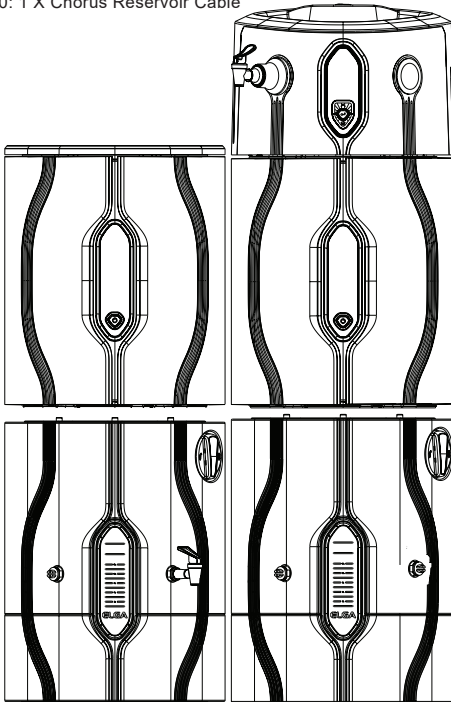
Chorus 1 Complete - PC110COXXM1
Chorus 1 Complete - PC110COBPM1
Chorus 1 Complete - PC120COXXM1
Chorus 1 Complete - PC120COBPM1

Chorus 2+ - PC210DUXXM1
Chorus 2+ - PC210DUBPM1
Chorus 2+ - PC220DUXXM1
Chorus 2+ - PC220DUBPM1

Chorus 2+ - PC210EUXXM1
Chorus 2+ - PC210EUBPM1
Chorus 2+ - PC220EUXXM1
Chorus 2+ - PC220EUBPM1

Reservoir - LA757 (15L)
Reservoir - LA758 (30L)
Reservoir - LA759 (60L)
Reservoir - LA760 (100L)

Previous product
mark numbers are
not compatible

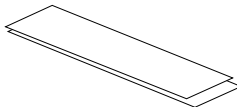


1



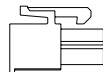
1 X LA822 Hubgrade Modem

2



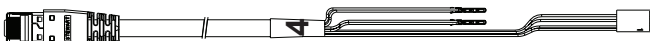
1 X Velcro Fixing Tabs

4



1 X 2 Way 1 Row Male
Mini Fit Connector

10

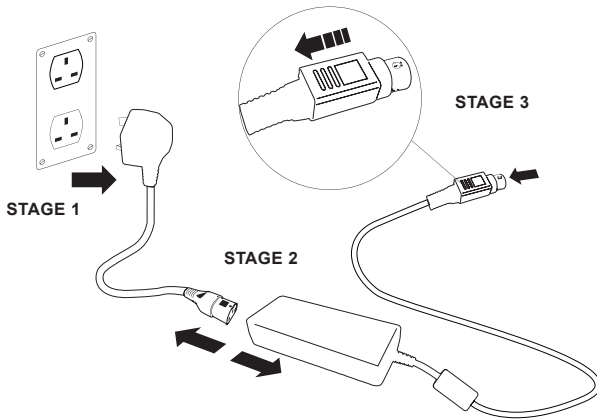


10: 1 X Quest and Flex - Chorus Reservoir - Chorus Dispensers Cable - SP1227 (650mm)

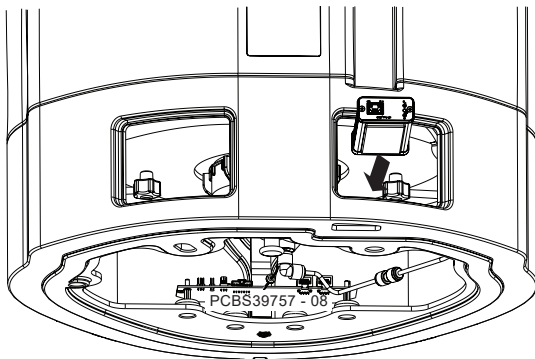
I. DISCONNECT THE POWER SUPPLY

⚠ WARNING! Ensure that the power supply cannot come into contact with water.

1. Switch OFF and disconnect the power supply as shown below.



2. POSITIONING

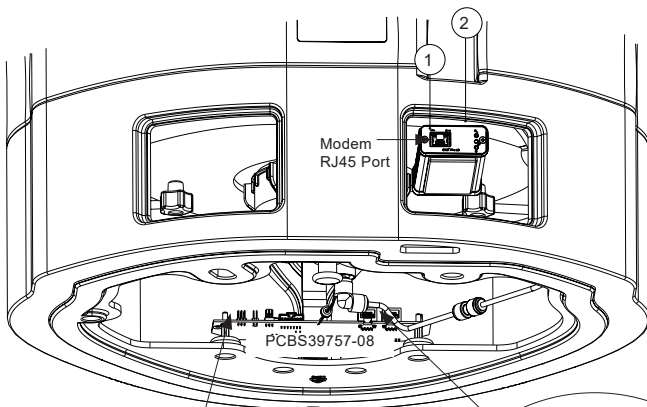


STAGE 4

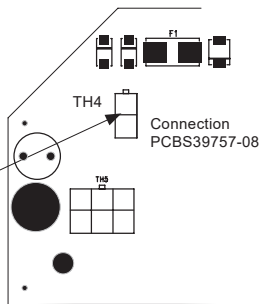
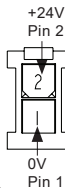
LA757 (15L)
LA758 (30L)
LA759 (60L)
*LA760 (100L)

3. CABLE CONNECTIONS

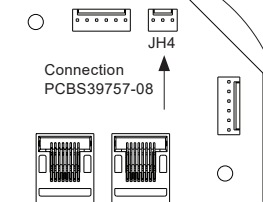
*LA760 (100L)



Molex 2 Way Male Mini Fit connector



Top View



Top View



WARNING!

Brown_White cables are always 0V.
Blue_White cables are always +24V

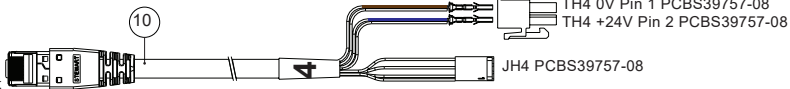
STAGE 5

2 Way 1 row Male Mini Fit connector

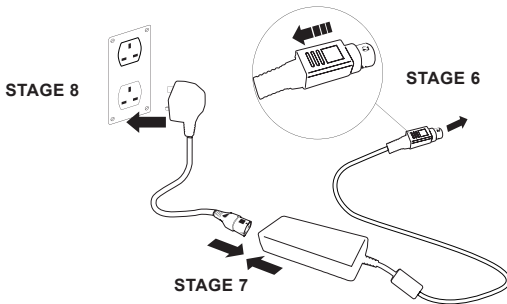
Terminals:

Terminal:

Modem RJ45 Port



4. RECONNECT THE POWER SUPPLY

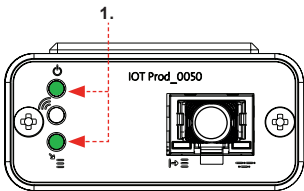


5. DATA FLOW ACTIVATION

STAGE 9

1. Create a SERVICE.TST file onto a blank USB.
2. Insert the USB into the USB port on any Chorus product in your system configuration.
3. Use the Dispenser or Chorus menu buttons to exit the menu then access it again with accept button.
4. Select 'Remote Logging' select 'YES', press accept to confirm.
5. Starting Sequence and LED Identification will begin afterward, see the next page to complete this installation.

6. STARTING SEQUENCE & LED IDENTIFICATION

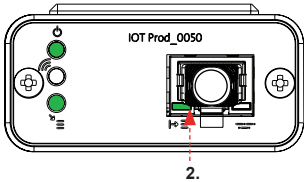


STAGE 10

1. **'Power LED' and 'Network scan LED'**
(GREEN - Status - Fixed) and (Green - Status - fixed for network scanning)

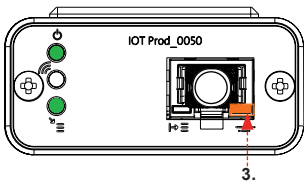
Indicating power is connected to the modem and scanning for a cellular network.

Transition approx 2 seconds



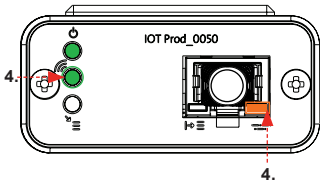
2. **'Equipment Auto Detection LED'**
(GREEN - Status - Fixed / Flashes during restart, only)
Automatically selects which equipment / product the modem is connected to.

Transition approx 1 to 10 seconds



3. **'Equipment Data Streaming LED'**
(AMBER - Status - Flashing)
Processed data stream of the equipment treated by the modem.

Transition up to 18 minutes,
allowing you time to call your local Hubgrade admin.



4. **'Transmit LED' & 'Equipment Data Streaming LED'**
(Green - Status - Flashing) & (Amber - Status - Flashing)

Green LED is flashing every second when connected to 4GM network and every 2 seconds when connected to 2G network.

Amber LED is flashing every 2 seconds for a chorus configuration.

COMPLETED INSTALLATION - CONTACT YOUR HUBGRADE ADMIN

CHORUS DISPENSERS

PURELAB Chorus

Required Parts:

- 1: 1 X LA822 Hubgrade Modem
- 2: 1 X Velcro Fixing Tabs
- 10: 1 X Chorus Dispensers Cable

NOTE:

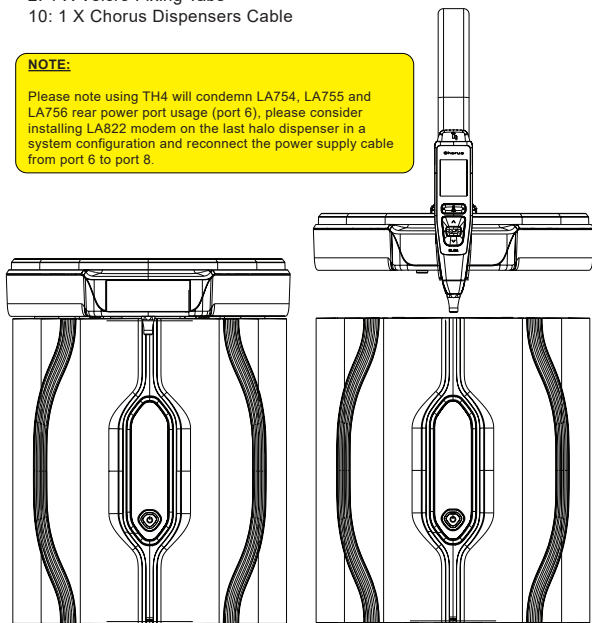
Please note using TH4 will condemn LA754, LA755 and LA756 rear power port usage (port 6), please consider installing LA822 modem on the last halo dispenser in a system configuration and reconnect the power supply cable from port 6 to port 8.

Model Variants
From:

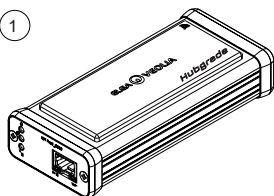
Chorus 1 - PC1ANRXM1
Chorus 1 - PC1LSCXM1
Chorus 1 - PC1GSCXM1

Halo Basic - LA754
Halo Adv - LA755
Halo Flex - LA756

Previous product
mark numbers are
not compatible

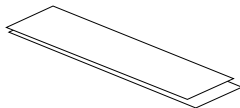


1



1 X LA822 Hubgrade Modem

2



1 X Velcro Fixing Tabs

10

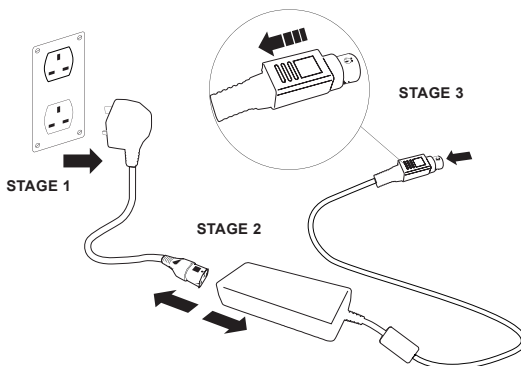


10: 1 X Quest and Flex - Chorus Reservoir - Chorus Dispensers Cable - SP1227 (650mm)

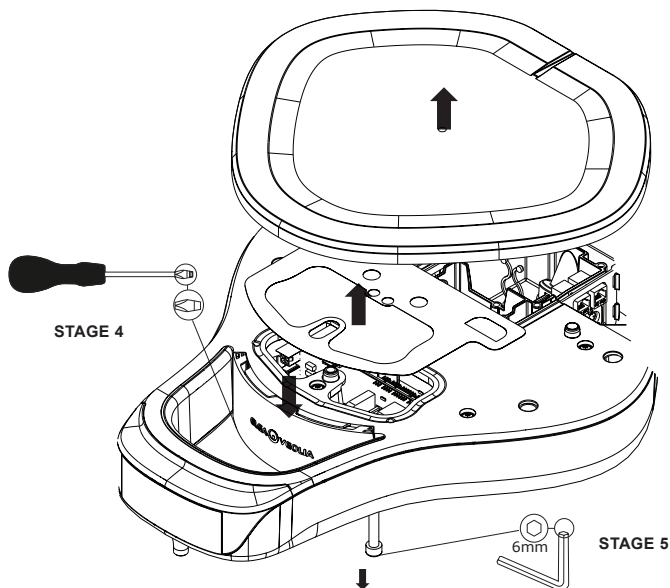
I. DISCONNECT THE POWER SUPPLY

⚠ WARNING! Ensure that the power supply cannot come into contact with water.

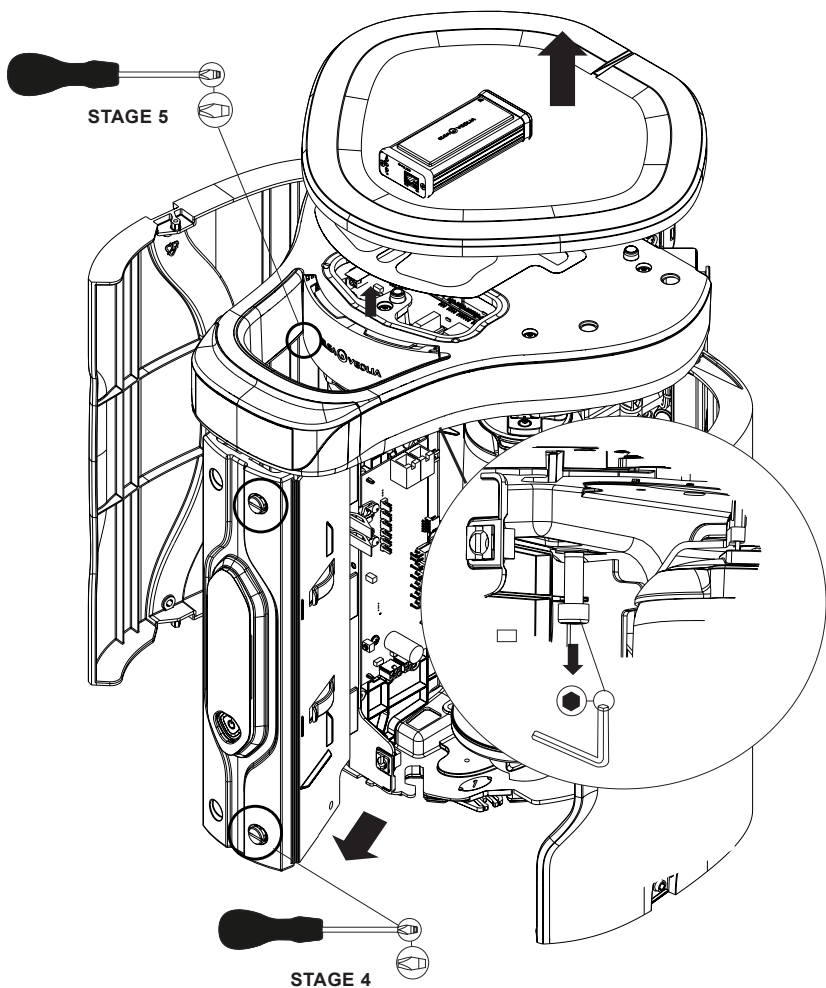
1. Switch OFF and disconnect the power supply as shown below.



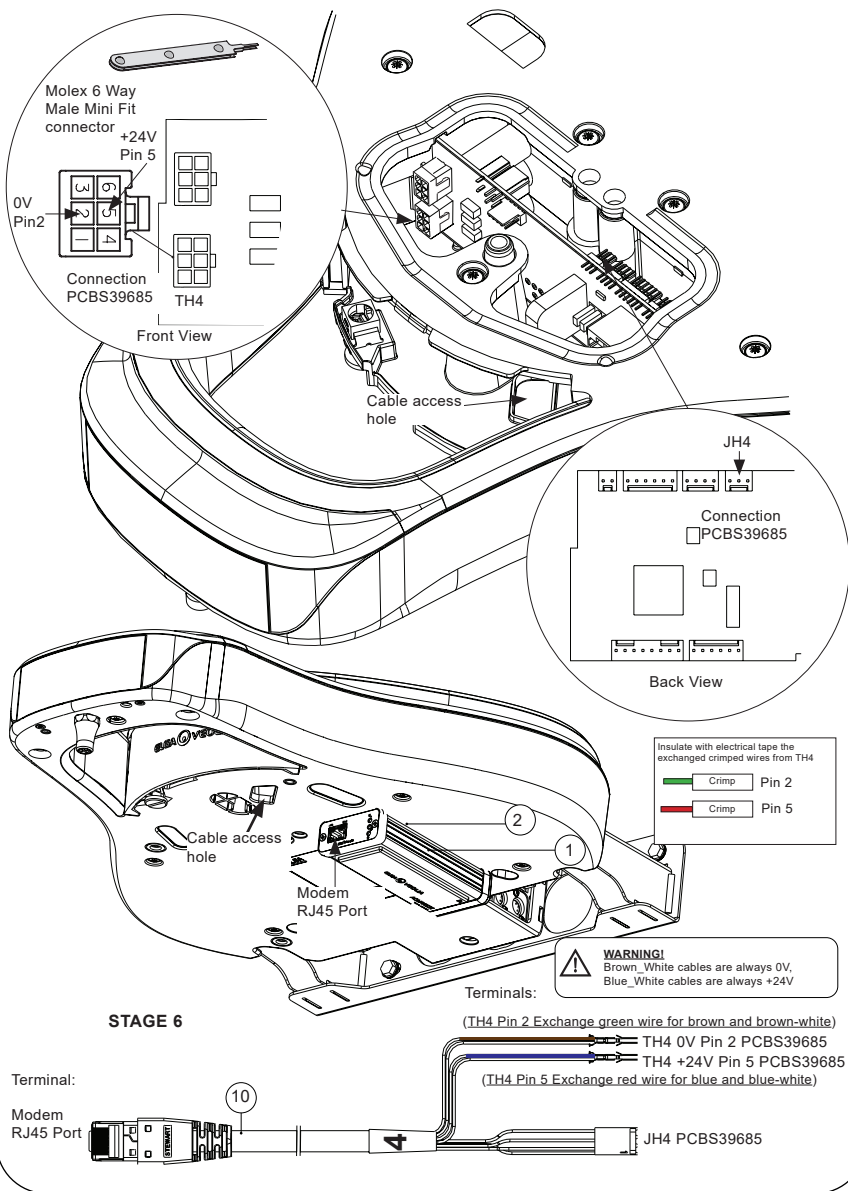
2A. REMOVING ACCESS PANELS - WALL MOUNTED HALO



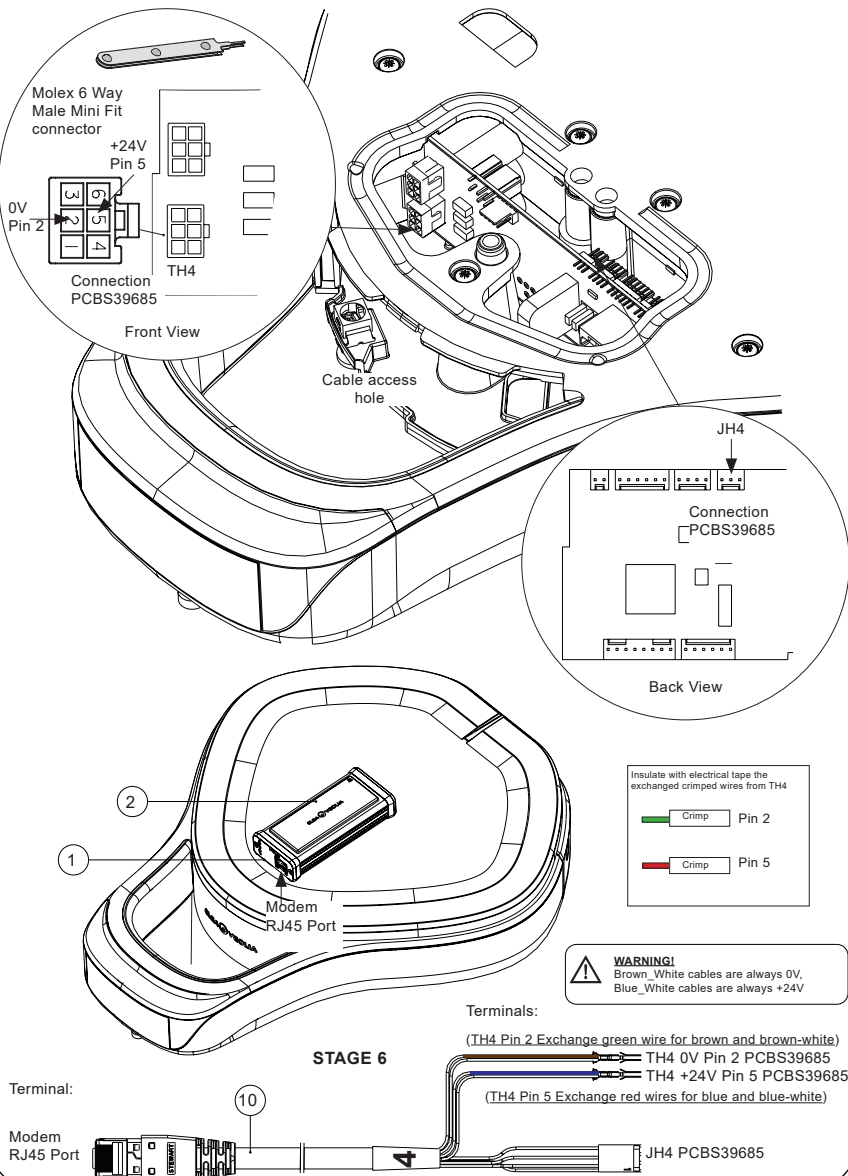
2B. REMOVING ACCESS PANELS - BENCH MOUNTED HALO



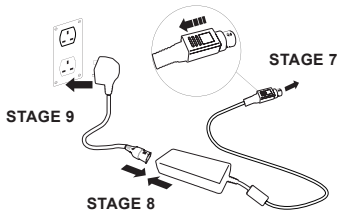
3A. POSITIONING AND CABLE CONNECTIONS - WALL MOUNTED HALO



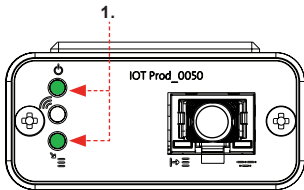
3B. POSITIONING AND CABLE CONNECTIONS - BENCH MOUNTED HALO



4. RECONNECT THE POWER SUPPLY



5. STARTING SEQUENCE & LED IDENTIFICATION

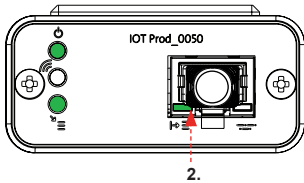


STAGE 10

1. 'Power LED' and 'Network scan LED'
(GREEN - Status - Fixed) and (Green - Status - fixed for network scanning)

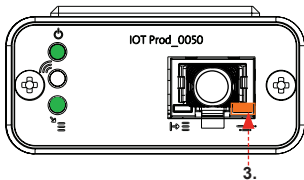
Indicating power is connected to the modem and scanning for a cellular network.

Transition approx 2 seconds



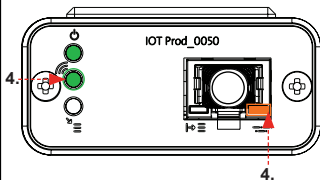
2. 'Equipment Auto Detection LED'
(GREEN - Status - Fixed / Flashes during restart, only)
Automatically selects which equipment / product the modem is connected to.

Transition approx 1 to 10 seconds



3. 'Equipment Data Streaming LED'
(AMBER - Status - Flashing)
Processed data stream of the equipment treated by the modem.

Transition up to 18 minutes,
allowing you time to call your local Hubgrade admin.



4. 'Transmit LED' & 'Equipment Data Streaming LED'
(Green - Status - Flashing) & (Amber - Status - Flashing)

Green LED is flashing every second when connected to 4GM network and every 2 seconds when connected to 2G network.

Amber LED is flashing every 2 seconds for a Chorus configuration.

COMPLETED INSTALLATION - CONTACT YOUR HUBGRADE ADMIN

FLEX AND QUEST PRODUCTS

PURELAB
flex

PURELAB
Quest

Required Parts:

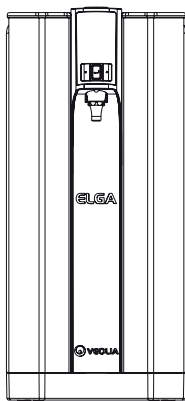
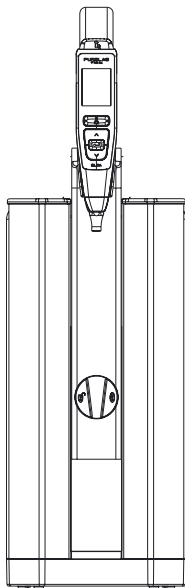
- 1: 1 X LA822 Hubgrade Modem
- 2: 1 X Velcro Fixing Tabs
- 4: 1 X 1 X 2 Way 1 Row Male Mini Fit Connector
- 6: 1 X Bridging Cable
- 10: 1 X Quest and Flex Cable

Model Variants
From:

- Flex 1 - PF1XXXXM2
- Flex 2 - PF2XXXXM2
- Flex 3 - PF3XXXXM2
- Flex 4 - PF4XXXXM2
- Flex 5 - PF5XXXXM2
- Flex 6 - PF6XXXXM2

**Previous product
mark numbers are
not compatible**

- Quest - PQDIUVM1
- Quest - PQDIXXM1



10

1 X Quest and Flex - Chorus Reservoir - Chorus Dispensers Cable - SP1227 (650mm)

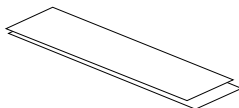


1



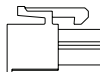
1 X LA822 Hubgrade Modem

2



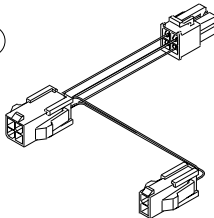
1 X Velcro Fixing Tabs

4



1 X 2 Way 1 Row Male
Mini Fit Connector

6

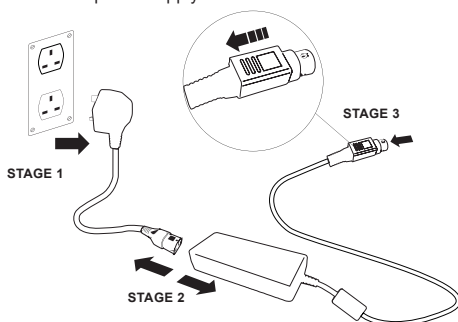


1 X Bridging Cable

I. DISCONNECT THE POWER SUPPLY

⚠ WARNING! Ensure that the power supply cannot come into contact with water.

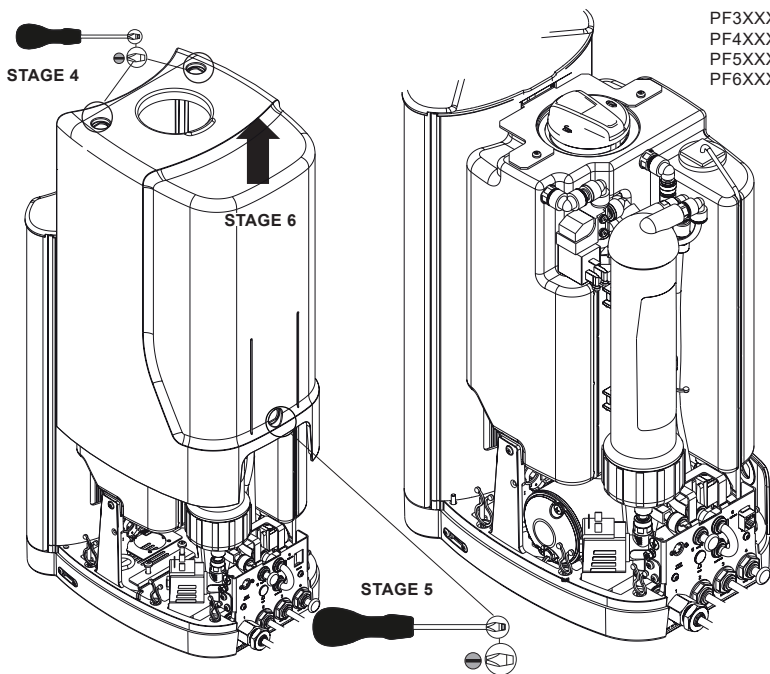
1. Switch OFF and disconnect the power supply as shown below.



2A. REMOVING THE ACCESS PANEL

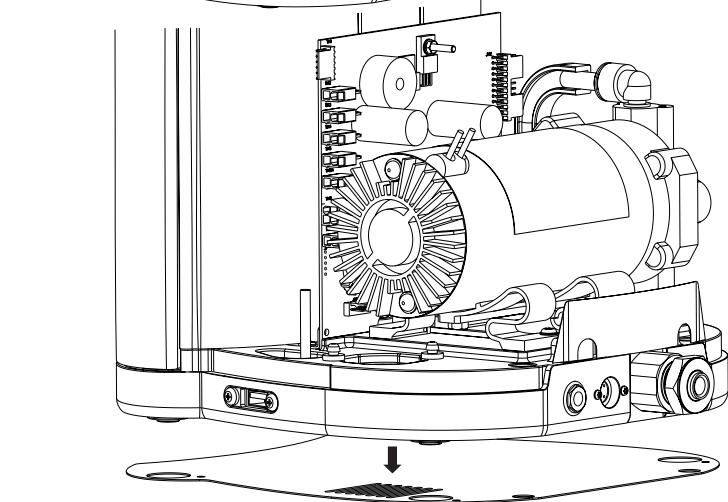
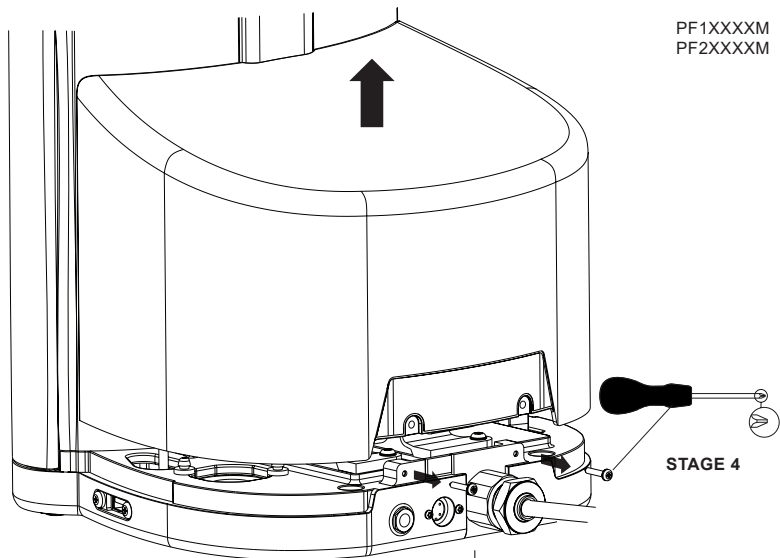
PQDIUVM
PQDIXXM

PF3XXXXM
PF4XXXXM
PF5XXXXM
PF6XXXXM



2B. REMOVING THE ACCESS PANELS AND ROUTING THE CABLE

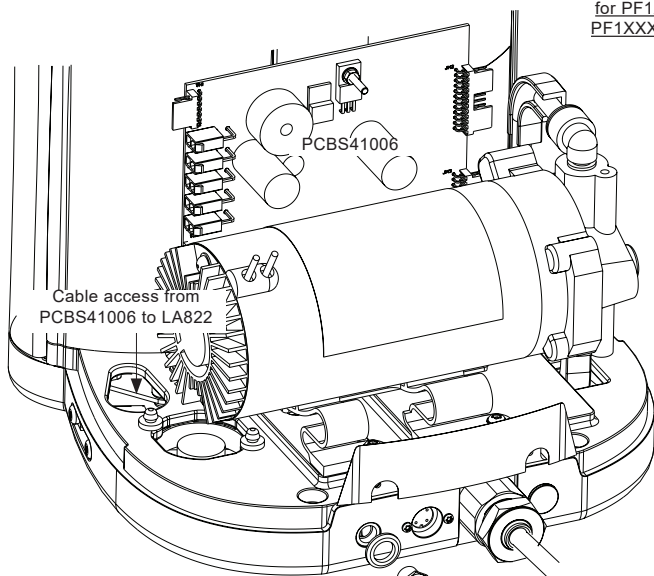
PF1XXXXM
PF2XXXXM



STAGE 5

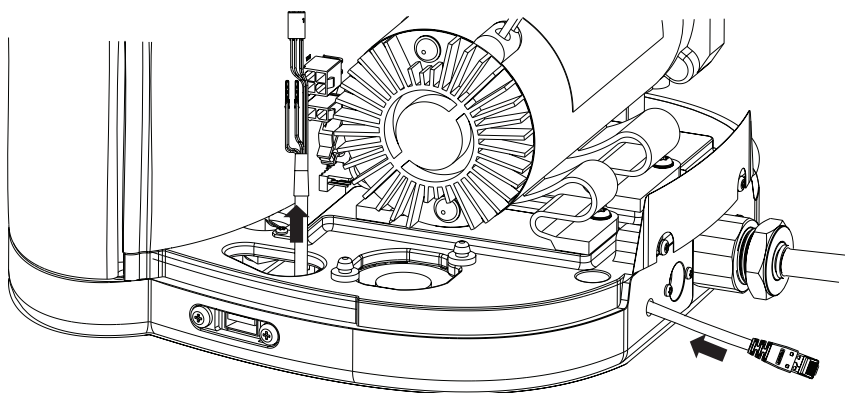


Cable access
for PF1XXXM &
PF1XXXM ONLY



STAGE 6

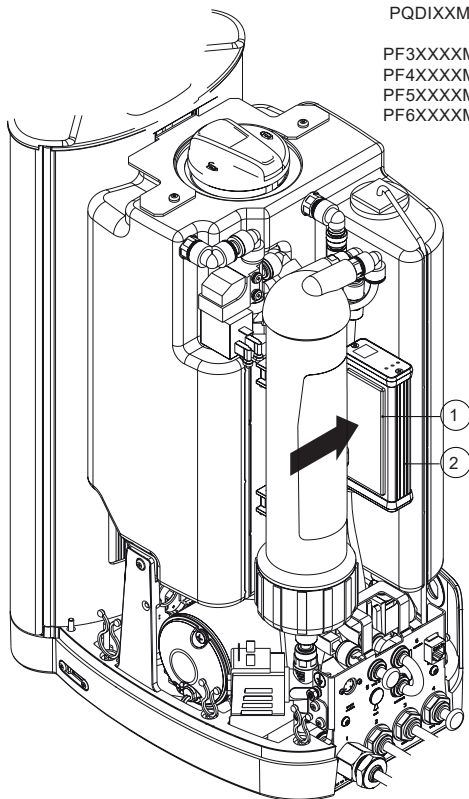
Remove the 11mm
BMS connector
for cable access



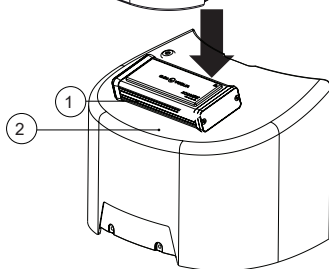
3. POSITIONING

PQDIUVM
PQDIXXM

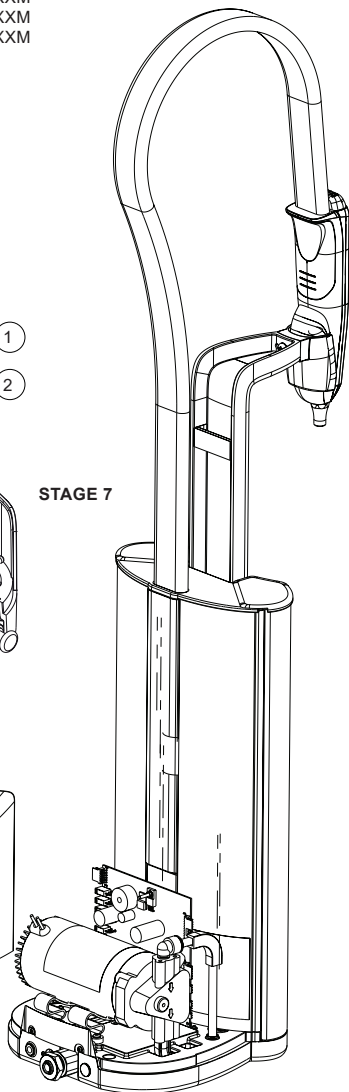
PF3XXXXM
PF4XXXXM
PF5XXXXM
PF6XXXXM



STAGE 7



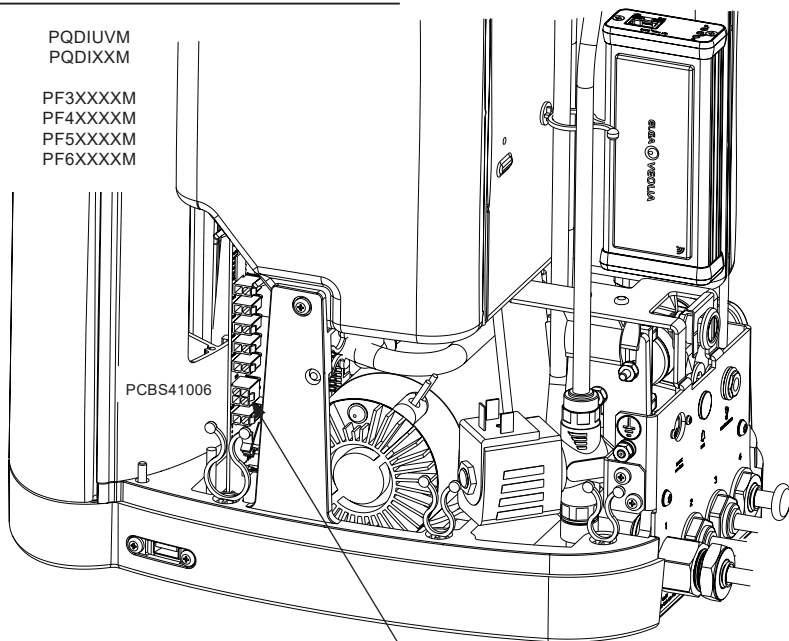
PF1XXXXM
PF2XXXXM



4A. CABLE CONNECTIONS

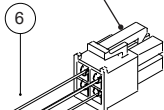
PQDIUVM
PQDIXXM

PF3XXXXM
PF4XXXXM
PF5XXXXM
PF6XXXXM



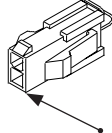
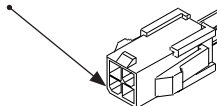
STAGE 8

Insert the removed 4 way 2 row Mini Fit Male connector from TH6 PCB41006 into here.



Unclip the existing wiring connector on TH6 and insert the Bridging Cable 4 way 2 row Mini Fit Male connector into TH6.

Bridging cable



Insert the 2 Way 1 row Mini Fit Male connector from PURELAB Flex and Quest modem cable into here.

(4A See cable connections continued)

4A. CABLE CONNECTIONS CONTINUED

Modem RJ45 Port

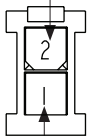
PQDIUVM
PQDIXXM

PF3XXXXM
PF4XXXXM
PF5XXXXM
PF6XXXXM

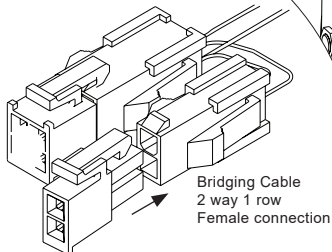
PCBS41006

2 Way 1 row
Male Mini Fit
connector

+24V Pin 2

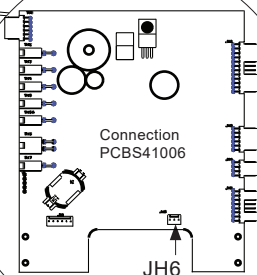


0V Pin 1



Bridging Cable
2 way 1 row
Female connection

Insert 2 Way Male
Mini Fit connector
from PURELAB
Flex and Quest modem
cable into the Bridging cable.



Connection
PCBS41006

JH6

Front View



WARNING!

Brown_White cables are always 0V,
Blue_White cables are always +24V

STAGE 9

Terminal:

Modem
RJ45 Port

10



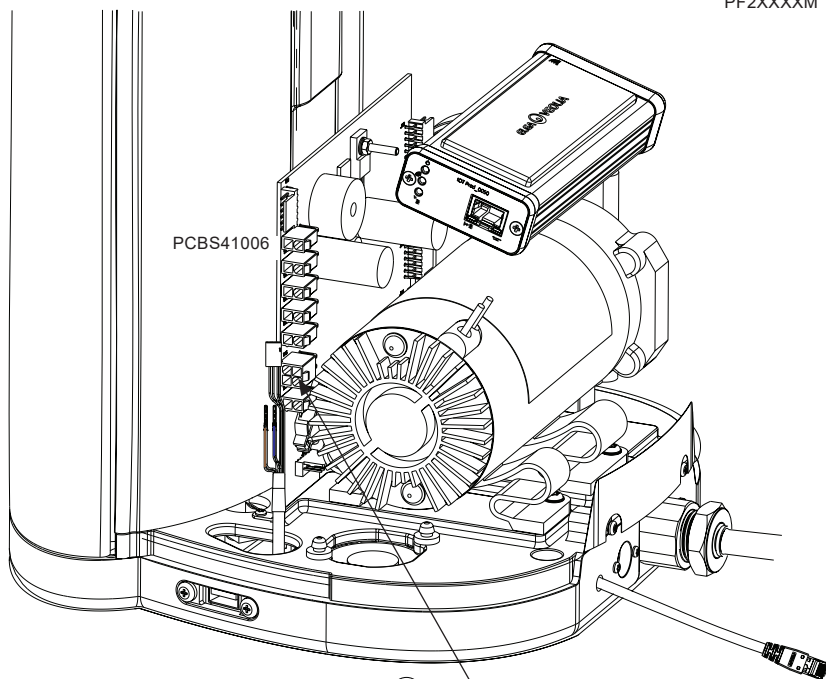
Terminals:
2 Way 1 row
Male Mini Fit
connector

0V Pin 1
+24V Pin 2

JH6
PCBS41006

4B. CABLE CONNECTIONS

PF1XXXXM
PF2XXXXM



STAGE 8

6

Unclip the existing wiring connector on TH6 and insert the bridging Cable 4 way 2 row Male connector into TH6.

Insert the removed 4 way 2 row Male connector from TH6 PCBS41006 into here.

Bridging cable

Insert the Male 2 Way 1 row Mini Fit connector from PURELAB Flex and Quest modem cable into here.

(4B See cable connections continued)

4B. CABLE CONNECTIONS CONTINUED

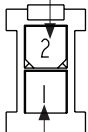
PF1XXXXM
PF2XXXXM

PCBS41006

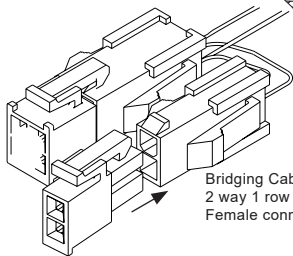
Aquavista Modem
RJ45 Port

2 Way 1 row
Male Mini Fit
connector

+24V Pin 2

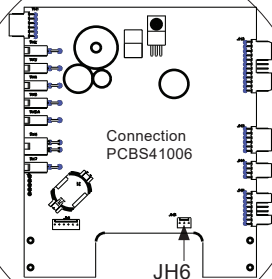


0V Pin 1



Bridging Cable
2 way 1 row
Female connection

Insert 2 Way Male
Mini Fit connector
from PURELAB
Flex and Quest modem cable
into the Bridging cable.



Front View



WARNING!

Brown_White cables are always 0V,
Blue_White cables are always +24V

STAGE 9

Terminal:

Modem
RJ45 Port

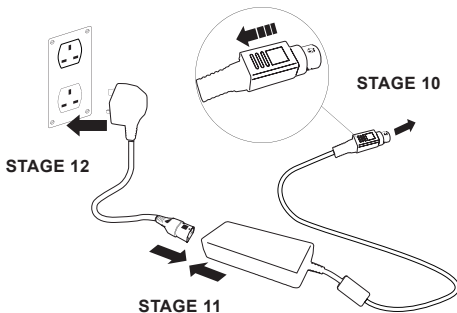


Terminals:

2 Way 1 row
Male Mini Fit
connector

JH6
PCBS41006

5. RECONNECT THE POWER SUPPLY



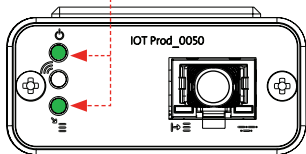
6. DATA FLOW ACTIVATION

STAGE 13

1. Create a SERVICE.TST file onto a blank USB.
2. Insert the USB into the USB port on any Flex or Quest product in your system configuration.
3. Use the Flex or Quest menu buttons to exit the menu then access it again with accept button.
4. Select 'Remote Logging' select 'YES', press accept to confirm.
5. Starting Sequence and LED Identification will begin afterward, see the next page to complete this installation.

7. STARTING SEQUENCE & LED IDENTIFICATION

1.

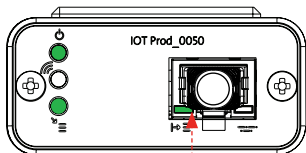


STAGE 14

1. **'Power LED' and 'Network scan LED'**
(GREEN - Status - Fixed) and (Green - Status - fixed for network scanning)

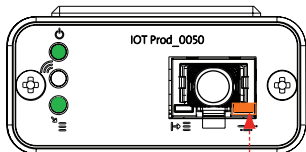
Indicating power is connected to the modem and scanning for a cellular network.

Transition approx 2 seconds



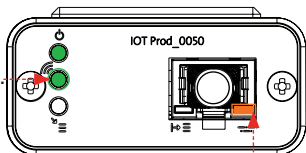
2. **'Equipment Auto Detection LED'**
(GREEN - Status - Fixed / Flashes during restart, only)
Automatically selects which equipment / product the modem is connected to.

Transition approx 1 to 10 seconds



3. **'Equipment Data Streaming LED'**
(AMBER - Status - Flashing)
Processed data stream of the equipment treated by the modem.

Transition up to 18 minutes,
allowing you time to call your local Hubgrade admin.



4. **'Transmit LED' & 'Equipment Data Streaming LED'**
(Green - Status - Flashing) & (Amber - Status - Flashing)

Green LED is flashing every second when connected to 4GM network and every 2 seconds when connected to 2G network.

Amber LED is flashing every 5 seconds for a Flex or Quest configuration.

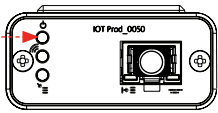
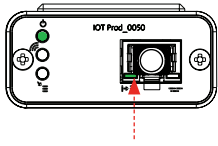
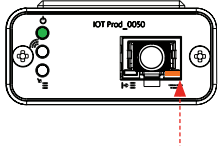
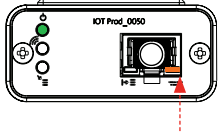
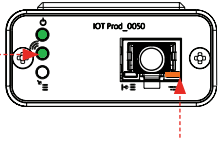
COMPLETED INSTALLATION - CONTACT YOUR HUBGRADE ADMIN

TROUBLESHOOTING ADVICE

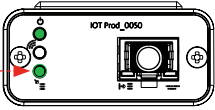
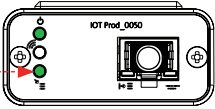
Troubleshooting Advice - Installation Issues

Connection	Description	Function	Check / Action
System Software	ELGA VEOLIA system software which must be the latest version and compatible with Modem	Recognises modem is connected and sends relevant data	Confirm correct compatible software and update as required
Power connection modem	24 VDC power connection from power supply/PCB to the modem	Provides power to the modem	Check correct wire configuration, connections, connectors. Measure power and continuity for each connection
Power connection ELGA VEOLIA system	24 VDC power connection from power supply/PCB to the modem	Provides power to the modem	Ensure PCB connection is active and compatible. Check correct wire configuration, connections, connectors.
			Measure power and continuity for each connection
Data connection to the modem	Connects ELGA VEOLIA product PCB to the modem data connection	Transfers data from ELGA VEOLIA product PCB to the modem	Check correct wire configuration, connections, connectors. Measure power and continuity for each connection
Data connection to ELGA VEOLIA system	Connects ELGA VEOLIA product PCB to the modem data connection	Transfers data from ELGA VEOLIA product PCB to the modem	Ensure PCB connection is active and compatible. Check correct wire configuration, connections, connectors. Measure power and continuity for each connection

Troubleshooting Advice - Post Installation Issues

LED	Issue	Function	Check / Action
	'Power LED' is NOT illuminated	Status - Fixed Green LED Indicates power is connected to the LA822.	Ensure ELGA VEOLIA system or product has power and the cables are correctly connected to the LA822.
	'Equipment Auto Detection LED' is NOT flashing during restart.	Status - Green LED - Fixed / Flashes during restart, only Automatically select which equipment / product LA822 is connected to.	Check ELGA VEOLIA system or product software is up to date using the latest version. Check the wires are correctly fitted to LA822, refer to cable connection diagrams.
	'Equipment Data stream LED' NOT flashing	Status - Amber LED - Flashes every second for Medica. Flashes every 5 seconds for PURELAB Flex & Chorus Processed data stream of the equipment	Check ELGA VEOLIA system or product software is up to date using the latest version. Check the wires are correctly fitted to LA822, refer to cable connection diagrams.
	'Equipment Data stream LED' is FIXED .	Status - Amber LED - Flashes every second for Medica. Flashes every 5 seconds for PURELAB Flex & Chorus	Follow magnet restart procedure on page 36.
	'Transmit LED' & 'Equipment Data stream LED'	Modem is attached to cellular network and sending data stream. 2 x flashing LED lights For example for a medica: Both... Both LED'S are flashing every second when connected to 4G network. Green LED is flashing every 2 seconds and amber LED is flashing every second when connected to 2G network.	LA822 is functioning correctly, check Hubgrade site for system data and parameters.

Troubleshooting Advice - Post Installation Issues

LED	Issue	Function	Check / Action
	'Over The Air upload LED'	<p>Status - Green LED - flashing</p> <p>Modem is automatically updating or verifying latest firmware for LA822</p>	<p><u>Only active during a software update to LA822.</u> Should be active after manual reset to show update is in progress. If LED is only flashing, this will allow the upload of the modem</p>
	'Over The Air upload LED' is <u>FIXED</u>	<p>Status - Green LED - flashing</p> <p>Modem is automatically updating or verifying latest firmware for LA822</p>	<p>Scanning the available networks, 3 routines of 6 minutes, 18 minutes in total before automatic restart of the scan. If no network available it will stay in this state. Verify that a LTE-M or 2G network is available</p>

Magnetic Restart Procedure



WARNING!

Apply this solution only once every 30 mins, this must be applied on the outside of the aluminium cover. **DO NOT OPEN LA822 Hubgrade Modem.**

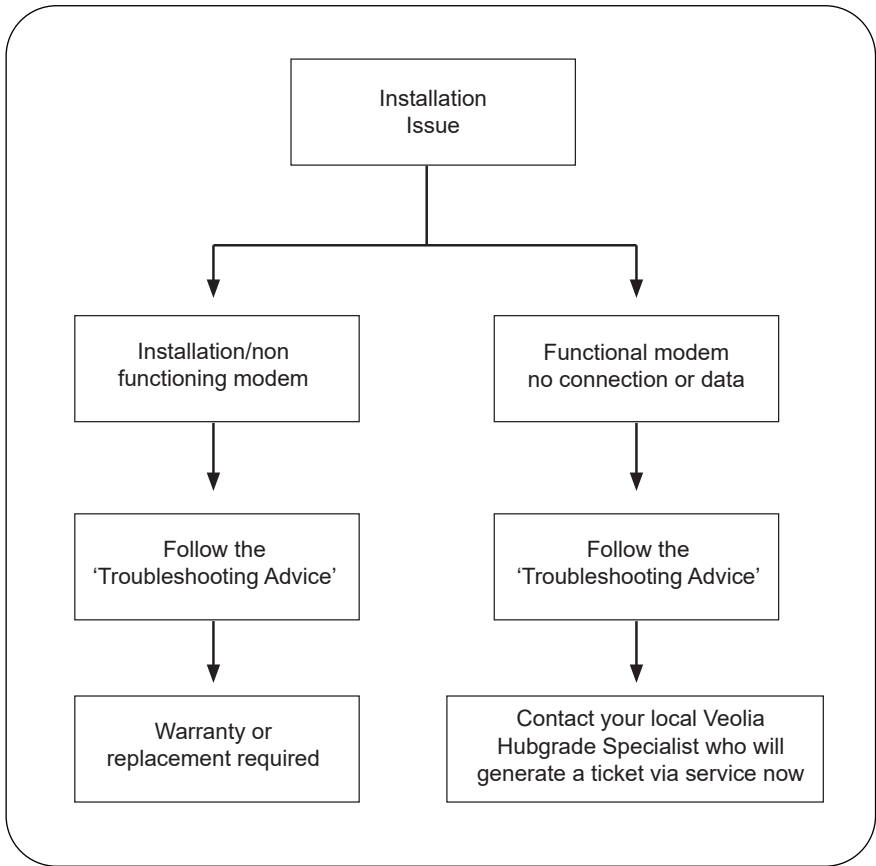


1 X Magnet

This is how to manually restart the device in the event that there is an installation/connection issue.

1. Locate magnet provided or use a suitable alternative.
2. Access the modem location (varies depending on model).
3. Ensure the modem is located away from any electrical sources.
4. Move magnet from back to front of the left Hubgrade module side. (same side as the Power LED)
Observe the flashing green and amber LEDs, one after the other to acknowledge a successful reset. Allow the modem to reboot. This process can take up to 18 minutes if the network is not strong enough.
6. Once successful and complete the modem will commence normal operation.
7. Relocate the modem into the correct position if necessary.
8. Close/Refit any covers on the product.

Process complete.



Languages

Please scan the QR Code and enter Pin code:1937 to dowload other languages



Hubgrade

(CONTACT DETAILS - ADD A LABEL HERE)

(Please contact Hubgrade for any installation queries)

ELGA  VEOLIA

The Labwater Specialists

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(Please contact ELGA VEOLIA for any product warranty and software queries)