# ENWARE-ORAS ELECTRONIC TAPWARE Installation and Maintenance Instructions



100008\_Jun 20

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### product descriptions



CUBISTA SERIES SENSOR TAP WITH TEMPERATURE ADJUSTER ENM6450 - Battery ENM6420 - Mains Operated



VEGA SERIES SENSOR TAP WITH OPTIONAL

TEMPERATURE ADJUSTER ENM6250 - Battery ENM6222 - Mains Powered



ELECTRA SERIES GOOSE NECK SENSOR TAP SINGLE TEMPERATURE ENM6350 - 170mm Reach Spout - Battery ENM6320 - 170mm Reach Spout - Mains Powered



ELECTRA SERIES GOOSE NECK SENSOR TAP WITH OPTIONAL TEMPERATURE ADJUSTER

ENM6353 - 170mm Reach Spout - Battery ENM6323 - 170mm Reach Spout - Mains Powered



ELECTRA WALL MOUNTED GOOSE NECK SENSOR TAP SINGLE TEMPERATURE ENM6550 - Battery (Wall Mounted)



VIVA SERIES SENSOR TAP WITH OPTIONAL TEMPERATURE ADJUSTER

ENM6150 - BATTERY ENM6120 - MAINS POWERED

### technical data

Connection	3/8" & 1/2" BSP Flexi Connector
Recommended Working Pressure Range	100 – 500kPa
Maximum Operating Temperature	70 °C
Sensor Range	Optimally Preset using Auto-Focus technology
Mains Powered	12V transformer with 2m lead Input:100-240V~50/60Hz Output:+12V DC 1000mA
Battery Powered	6V Lithium 2CR5 battery Battery life guide: 4 ± 1 years
Protection Class	IP 67

# installation compliance

Enware products are to be installed in accordance with the Plumbing Code of Australia (PCA), AS/NZS3500 and the manufacturer's instructions. Installations not complying with PCA, AS/NZS 3500 and the manufacturer's instructions may void the product and performance warranty provisions.

All heated water installations for sanitary fixtures used primarily for personal hygiene purposes shall deliver heated water at a temperature not exceeding:

- a) 45°C for healthcare and aged care buildings, early childhood centres, primary and secondary schools and nursing homes, or similar facilities for the aged, the sick, children, or people with disabilities; and
- b) 50°C for all other situations(Laundries and kitchen sinks are not required to have heated water at a maximum of 50°C)

#### NOTE: Enware Australia advises:

- 1. Due to ongoing Research and Development, specifications may change without notice.
- 2. Component specifications may change on some export models.





Enware Tapware is manufactured to the exacting WaterMark standard AS/NZ3718

Enware-Oras Tapware is supplied with WELS 6 Star 5.5lpm Water Efficiency Rating as standard.

Optional WELS 6 Star 3 lpm PCS Spray is available for cold water only installations.

If the product ordered does not include the optional temperature adjuster it will be supplied with WELS 6 Star 31pm Water Efficiency Rating as standard.

# components & spare parts

### CUBISTA ENM6450



	DESCRIPTION	SALES CODE
1	Temperature Control handle	ENMS216
2	Lithium 6V Battery	ENMS204
3	Solenoid Membrane Support	ENMS212
4	Solenoid valve	ENMS207
5	6450 Sensor 6V (Previously ENMS211 / 600659V)	ENMS209
6	8 lpm Aerator	SLMS620
7	Mesh Strainers x 2	ENMS214
8	G3/8-G1/2 Adaptor /Mesh Strainer/ Check Valve (1 set)	SLMS611
9	SPEX - Flexi Hoses (pair)	SLMS612
10	Battery Casing (includes battery)	ENMS206
	Fixing Plate and Nut	SLMS644

### CUBISTA ENM6420



	DESCRIPTION	SALES CODE
1	Temperature Control handle	ENMS216
2	Solenoid Membrane Support	ENMS212
3	Solenoid valve	ENMS207
4	6420 Sensor 12V - 600082V/600839V	ENMS209
5	8 lpm Aerator	SLMS620
6	Mesh Strainers x 2	ENMS214
7	G3/8-G1/2 Adaptor /Mesh Strainer/ Check Valve (1 set)	SLMS611
8	SPEX - Flexi Hoses (pair)	SLMS612
	Fixing Plate and Nut	SLMS644
	Transformer	ENMS231
	Extended Transformer 4.5M	ENMS230

## VEGA ENM6222



	DESCRIPTION	SALES CODE
1	Temperature Control handle	ENMS222
2	Chrome mixer Cover	ENMS225
3	Solenoid Membrane Support	ENMS212
4	Solenoid valve	ENMS207
5	6120/6222 Sensor 12V - 600082V/600839V	ENMS209
6	Aerator and key	ENMS220
7	Mesh Strainers x 2	ENMS214
8	G3/8-G1/2 Adaptor /Mesh Strainer/Check Valve (1 set)	SLMS611
9	SPEX - Flexi Hoses (pair)	SLMS612
10	Fixing Plate and Nuts	SLMS605
	Transformer	ENMS231
	Extended Transformer 4.5M	ENMS230

## VEGA ENM6250



	DESCRIPTION	SALES CODE
1	Battery Casing (includes battery)	ENMS206
2	Lithium 6V Battery	ENMS204
3	Temperature Control handle	ENMS222
4	Chrome mixer Cover	ENMS225
5	Solenoid Membrane Support	ENMS212
6	Solenoid valve	ENMS207
7	Sensor To Suit ENM6250 6V - 600766V	ENMS226
8	Aerator and Key	ENMS220
9	G3/8 - G1/2 Adaptor/Mesh Strainer/Check Valve (1 set)	SLMS611
10	Mesh Strainers x 2	ENMS214
11	SPEX - Flexi Hoses (pair)	SLMS612
12	Fixing Plate and Nuts	SLMS605

### **ELECTRA GOOSENECK ENM6320**



	DESCRIPTION	SALES CODE
1	Solenoid Membrane Support	ENMS212
2	Solenoid valve	ENMS207
3	Sensor To Suit ENM6320/21 12V - 600780V	ENMS228
4	Aerator ENM6300 Series	ENMS221
5	Mesh Strainers x 2	ENMS214
6	G3/8 - G1/2 Adaptor/Mesh Strainer/Check Valve	SLMS611
7	170mm spout	ENMS235
8	SPEX - Flexi Hoses (pair)	SLMS612
9	Fixing Plate and Nuts	SLMS605
	Transformer	ENMS231
	Extended Transformer 4.5M	ENMS230

### **ELECTRA GOOSENECK ENM6323**



	DESCRIPTION	SALES CODE
1	Temperature Control handle	ENMS222
2	Solenoid Membrane Support	ENMS212
3	Solenoid valve	ENMS207
1	Sensor To Suit ENM6320/21 12V - 600780V	ENMS228
5	Aerator ENM6300 Series	ENMS221
ô	Mesh Strainers x 2	ENMS214
7	G3/8 - G1/2 Adaptor/Mesh Strainer/Check Valve (1 set)	SLMS611
3	170mm spout	ENMS235
)	SPEX - Flexi Hoses (pair)	SLMS612
10	Fixing Plate and Nut	SLMS644
	Transformer	ENMS231
	Extended Transformer 4.5M	ENMS230

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### ELECTRA GOOSENECK ENM6350



	DESCRIPTION	SALES CODE
1	Battery Casing (includes battery)	ENMS206
2	Lithium 6V Battery	ENMS204
3	Solenoid Membrane Support	ENMS212
4	Solenoid valve	ENMS207
5	Sensor To Suit ENM6350 6V - 600774V	ENMS227
6	Aerator ENM6300 Series	ENMS221
7	Mesh Strainers x 2	ENMS214
8	G3/8 - G1/2 Adaptor/Mesh Strainer/Check Valve (1 set)	SLMS611
9	170mm spout	ENMS235
10	SPEX - Flexi Hoses (pair)	SLMS612
11	Fixing Plate and Nuts	SLMS605
	120mm spout	ENMS232

### ELECTRA GOOSENECK ENM6353

	DESCRIPTION	SALES CODE
1	Battery Casing (includes battery)	ENMS206
2	Lithium 6V Battery	ENMS204
3	Temperature Control handle	ENMS222
4	Solenoid Membrane Support	ENMS212
5	Solenoid valve	ENMS207
6	Sensor To Suit ENM6350/51 6V - 600774V	ENMS227
7	Aerator ENM6300 Series	ENMS221
8	Mesh Strainers x 2	ENMS214
9	G3/8 - G1/2 Adaptor/Mesh Strainer/Check Valve (1 set)	SLMS611
10	170mm spout	ENMS235
11	SPEX - Flexi Hoses (pair)	SLMS612
12	Fixing Plate and Nut	SLMS644
	120mm spout	ENMS232



### ELECTRA GOOSENECK ENM6550



	DESCRIPTION	SALES CODE
1	ENM6550 Tap Body	n/a
2	Wall connector with isolation valve	ENMS244
3	Solenoid valve	ENMS207
4	Battery Pack (includes battery and casing)	ENMS206
	Lithium 6V Battery	ENMS204
5	170mm Spout to suit ENM6550 only	ENMS245
6	Sensor 6V for ENM6550 only - 601148V	ENMS234
7	Colour Ring Set (Blue/ Yellow/Red)	ENMS241
8	Aerator ENM6300/6500 Series	ENMS221

### VIVA ENM6120



	DESCRIPTION	SALES CODE
1	Temperature Control handle	ENMS215
2	Chrome mixer Cover	ENMS219
3	Solenoid Membrane Support	ENMS212
4	Solenoid valve	ENMS207
5	6120 Sensor 12V -600082V/600839V	ENMS209
6	8 lpm Aerator	SLMS620
7	Mesh Strainers x 2	ENMS214
8	G3/8-G1/2 Adaptor /Mesh Strainer/Check Valve (1 set)	SLMS611
9	SPEX - Hoses (pair)	SLMS612
10	Fixing Plate and Nuts	SLMS605
	Transformer	ENMS231
	Extended Transformer 4.5M	ENMS230

### VIVA ENM6150



	DESCRIPTION	SALES CODE
1	Temperature Control handle	ENMS215
2	Chrome mixer Cover	ENMS219
3	Solenoid Membrane Support	ENMS212
4	Solenoid valve	ENMS207
5	6150 Sensor 6V (Previously ENMS211 / 600659V / 199215V)	ENMS209
6	8 lpm aerator	SLMS620
7	Mesh Strainers x 2	ENMS214
8	G3/8-G1/2 Adaptor /Mesh Strainer/Check Valve (1 set)	SLMS611
9	SPEX - Hoses (pair)	SLMS612
10	Fixing Plate and Nuts	SLMS605
11	Battery Casing (includes battery)	ENMS206
12	Lithium 6V Battery	ENMS204

Before proceeding with installation ensure all operating and dimensional specifications are suitable for the intended installation.

Ensure all supply lines are flushed thoroughly to remove debris prior to the installation of this product as per AS/ NZS 3500.1. Debris in Solenoid valve may void warranty. A Pressure reduction valve may be required to comply with the recommended maximum supply pressure and/or balanced pressure requirements.

It is recommended that isolation valves are installed prior to the mixer in an easily accessible position. WARNING: Do not cut the electrical cable of the sensor tap, or alter the product in any way to suit installation. Damage caused in this way will void warranty.

Extended transformer cables (ENMS230) are available if extra power cable length is required.

NOTE: Flexi hose fittings have a reverse left handed thread

Tools Required for Installation: spanner, flat head screw driver, thread seal tape or equivalent.

It is advised NOT TO position taps directly in front of a mirror where the sensor could reflect back causing false operation.



### mixer modification

ENM6120, ENM6150, ENM6220 & ENM6250 models which all come as standard single temperature with the option to modify into a dual temperature mixer tap. **This modification should be done prior to installing the tap.** 

#### **DUAL TEMPERATURE**

- Remove plastic cover cap using a small flat head screwdriver being careful not to damage tap's chrome finish IMAGE 1
- Push grey plastic handle bracket onto the spindle found within the cavity where the chromed plastic cover cap was., The small lug on the handle bracket should face the back of the tap when spindle is in a fully closed position.
  IMAGE 2 NOTE: Fit handle bracket and test location prior to securing.
- 3. Secure the Handle Bracket by fitting the screw and tightening wth a 2.5mm Allen key. **IMAGE 3**
- Place the Chrome Handle over handle bracket and align hole in the handle with the lug. When in position, firmly press handle onto the bracket until it clicks in place.
  IMAGE 4
- 5. Test the orientation and rotation of temperature handle, if handle orientation needs correcting use the Allen key to depress lug and remove temperature adjustment handle repeat steps 2-4 to re-position the grey handle bracket to suit. **IMAGE 5**
- 6. Unscrew the hot water flexi hose from tap base\* until it comes to a firm stop. **IMAGE 6**
- 7. Continue installing tap as per Basin Mount Instructions **Page 13,** test operation of mixer by rotating the handle back and forth while checking the water temperature from the outlet.

#### **PRE-SET TEMPERATURE**

- 1. Rotate temperature adjustment handle until desired water temperature is reached.
- 2. Remove handle using Allen key to press securing lug inwards.
- 3. Loosen Allen head screw using a 2.5mm Allen Key, remove handle bracket from temperature adjustment spindle. **IMAGE 3**
- 4. Insert chromed plastic cover cap in place of temperature adjustment handle. **IMAGE 1**

#### COLD OR PRE-MIXED WATER

- 1. REPEAT STEPS 1 -4 as above in PRE-SET TEMPERATURE
- 2. Unscrew the hot water flexi hose\* and screw in the plug in place of the inlet pipe. **IMAGE 7**



IMAGE 1







IMAGE 3

IMAGE 4





IMAGE 5

IMAGE 6



IMAGE 7

\* Plug has a reverse LEFT handed thread

### basin mount installation

Before mounting tap onto basin, check the configuration of water supply single inlet or dual (hot & cold) inlets. To change the configuration, refer to Page 12 - Modification to a Mixer.

- 1. Isolate water supply before commencing installation.
- 2. Place the base sealing o-ring over the end of the Flexi hoses and press firmly against base of tap body. **IMAGE 8**
- 3. Feed each end of Flexi hoses through the basin/sink hole, alternately. Position tap over basin/sink hole & align the spout. Ensure sealing washer is positioned flat between basin/sink and tap body base. **IMAGES 9 & 10**

Note: An optional\* Fixing Support Plate (SLMS608) can be used as additional support and is to be positioned between the underside of the basin/sink and the fixing plate. \*Supplied as standard with Gooseneck Models.

4. Place the Fixing Plate over threaded rod and screw on Fixing Nuts. Wind fixing nuts up threaded rod to press the fixing plate against the underside of the basin. **IMAGE 11** 

Caution: Be careful not to pinch the sensor cable with the fixing plate. If sensor cable is squashed it may result in permanent damage to the sensor.

- 5. Check the position and alignment of tap again, tighten fixing nuts up to secure it onto the basin/ sink using a flat head screw driver, a spanner or a socket wrench.
- Screw the G3/8"-1/2" adaptor onto the supply Outlet/ Isolation valve, ensuring the mesh strainer is in position between the Outlet and Adaptor. IMAGE 12 & 13
- 7. Connect Flexi hose to the G3/8"-1/2" Adaptor. IMAGE 14
- 8. If the tap is to be used as a mixer, see Modification for Mixer on **Page 12** and repeat steps 6 & 7 with the second adaptor and Flexi hose making sure the hot water is connected to the hot water hose.

# Note: It is the manufacturer's recommendation that the Flexi (SPEX) hoses are connected directly to isolation valves

For ENM6250 the battery is located within the tapware body and should be connected after the tap is installed - refer to Service and Maintenance section on **page 17** 





IMAGE 8

IMAGE 9





IMAGE 10

IMAGE 11





IMAGE 12

IMAGE 13



IMAGE 14

 Once the tap is installed and secure, take the power cable which should be hanging down near flexi hoses (N/A for ENM6250 models) and firmly press connector into either battery connector or transformer cable connector. IMAGES 15 & 16



IMAGE 15



IMAGE 16

Ensure battery is connected with white line on the cable connector aligning with the moulded line in the battery casing and /or white line on transformer cable connector. **IMAGE 17 & 18** 

WARNING: Failure to align the connections correctly will result in permanent damage to the sensor & void warranty.



Align white strip with moulded line on battery case

IMAGE 17



White strips must align on transformer cable IMAGE 18



10. For mains powered models, once the power cables are connected, plug transformer into power supply and turn power 'ON'.

For Battery Models, secure the battery case to the flexi hose in an upside down position with the battery connector facing down (facing the connection upside down prevents water pooling near the connection) using the plastic ties and battery holder provided. **IMAGE 19** 

### wall mount ENM6550

Ensure 1/2'' male BSP supply outlet is positioned at an 1. appropriate position and height adjacent to the sink.

It is recommended that the outlet be set at 100mm high from the sink and approx 20mm of thread protrudes from the finished wall. IMAGE 20

- 2. Place Chromed Wall Flange and O-ring over the supply outlet, ensuring O-ring is contained within the dress flange. Apply suitable amount of thread tape or equivalent to the outlet thread and wind on the Isolation Wall Connector. Tighten against the wall using an M10 Allen key. IMAGE 21
- 3. Using an Allen key or Flat head screw driver, close ball valve by turning the spindle of the valve so the flat groove is perpendicular to the water flow. Turn on water supply and test for leaks. If leaking behind the wall flange, repeat steps 1-3. IMAGE 22

If leaking from the ball valve contact ENWARE



NOTE: Supply lines must be flushed or debris prior to continuing with installation, isolation valve can be used to open the water supply at this point to flush the lines

- Before fitting tap onto the Isolation connector, ensure 4. the fibre washer/mesh strainer is in position. Failure to include mesh strainer may cause damage to solenoid valve and void warranty provisions of the product. **IMAGE 23**
- 5. Carefully fit wall tap to Isolation connector and secure using loose 3/4" nut. Carefully tighten (as to not damage chrome) using a spanner, when nut is close to tight, ensure tap is in a vertical position & tighten further and test fitment to wall. IMAGES 24
- 6. Peel off protective label off the sensor and clean any residual marks left by the tape. IMAGE 25
- 7. Slowly turn water supply on. Tap may flow for a small period of time until solenoid becomes activated. Place hands in front of the sensor and test tap function.

#### CHANGING COLOURED TEMPERATURE INDICATING RING

- Isolate the water supply by closing the Isolation valve 1. within the wall connector IMAGE 22
- Turn temperature ring so seam is visible then push apart 2. with thumb & fingers to release locking clip IMAGE 26
- 3. Carefully remove up over the tap. IMAGE 27
- 4. Replace ring with correct coloured ring and slide down tap body until it sits in groove. IMAGE 28
- 5. Push together to lock & secure it within groove and rotate clip to the back. IMAGE 29





IMAGE 20

IMAGE 21





IMAGE 22







IMAGE 24

IMAGE 25





IMAGE 26



IMAGE 28



IMAGE 29

### ENM6400/6200/6300/6550/6100 MODELS

#### **REMOVING INTERNALS OF TAP FOR SERVICING**

NOTE: Take note of the process and orientation of removing components will require the reverse process for refitting.

- 1. Ensure water supply is turned off and the battery or transformer is disconnected (except ENM6250)
- 2. Remove chrome cover cap using a small flat head screwdriver to lever off. If tap is set for mixing, rotate temperature handle fully anti-clockwise and remove handle using an allen key to press securing lug inwards. **IMAGE 30**
- 3. Unwind Allen head screw using a 2.5mm Allen key, and remove handle bracket from temperature adjustment spindle.
- 4. Remove securing grub screw at back of the tap using the 2.5mm Allen key and carefully lift the Chromed tap body vertically off the hob mount. **IMAGE 31**

Be careful not to lift too high as cables will still be connected.

5. Disconnect sensor cable from solenoid valve. IMAGES 32 & 33

NOTE: for ENM6250 models battery is within tap body and should be removed at this point and replaced immediately after the intended operation is complete. See Changing Battery Instructions Page 17

- 6. Perform required operation then proceed .
- 7. For ENM6250 models, connect sensor to battery, for other models, connect the sensor cable to the solenoid valve and feed power cable of the sensor through the tap hob mount.

The solenoid and sensor connectors are to be secured within the gray plastic connector housing which is fixed to the solenoid. Check that the connector housing is in a suitable position in relation to the internal cavity of the tap body. **IMAGE 34**. It should be positioned where it will not interfere with the internal components, approximately the same distance from the solenoid valve as the porting pipe. **IMAGES 35** NOTE: The longer end of the connector housing faces downwards.

- 8. Lower the tap body, taking care not to pinch the cables, until it locates over the lug on the hob mount, and the grub screw hole in the tap body aligns with the grub screw hole in the hob mount. Secure in place using the grub screw and tighten with the 2.5mm Allen key. Replace the temperature handle/chrome cover cap.
- 9. Connect tap to its power source either 6V battery or 12V mains power transformer cable. Ensure the battery is connected in its correct configuration with the white line on the cable connector aligning with the moulded line in the battery casing or white line on the transformer cable connector. See Installation Instructions on Page 14 IMAGES 17 & 18



WARNING: Failure to align the connections correctly will result in permanent damage to the sensor & void warranty

10. Turn power and water supply on and test operation.



IMAGE 31



IMAGE 32



IMAGE 33



IMAGE 34



IMAGE 35

### changing battery

#### **CHANGING BATTERY**

A battery typically lasts between 2 - 5 years, depending on usage. Working voltage is between 5.4v - 6.3v. If voltage falls below 5.3v, replace the battery. **Use only 6V Lithium 2CR5 battery.** 

^ Ensure the battery is connected in its correct configuration with the white line on the cable connector aligning with the moulded line in the battery casing or white line on the transformer cable connector.



WARNING: Failure to align connections correctly can permanently damage sensor & void warranty

#### For all models (except ENM6050 and ENM6250)

- 1. Detach battery casing from holder.
- Detach the sensor cable and open casing. Cover will be tight IMAGE 36
- 3. Change battery ^ . Use only 6V Lithium 2CR5 battery.
- 4. Replace battery casing cover and the sensor lead.
- 5. Re-attach battery casing in the holder



IMAGE 36

### changing sensor

#### FOR ALL MODELS (except ENM6050)

- 1. Disassemble tap by following instructions on Page 16
- Once internals are exposed, pull plastic sensor bracket out of base of the tap body and remove sensor.
  IMAGES 42 & 43
- 3. Sensor cables are contained within connector housing attached to side of Solenoid. With sensor removed from tap body, it can be disconnected and replaced.

Take note of orientation when removing tap body and sensor as it should be re-assembled the same way when fitting a new sensor.

- Place the sensor into the tap body so that the lens fits within the holes provided. Ensure the sensor is positioned with the text on the back facing upright. When in position, carefully secure in place with plastic sensor bracket. IMAGE 44
- 5. Connect sensor to solenoid and position cables within the cable clip so it can be inserted within the tap body without being caught or damaged. **IMAGE 45.**

When re-connecting the 'new' sensor cables it is critical that the white lines on the connectors align prior to pressing together.

6. Re-assemble tap by following instructions on Page 16



IMAGE 42



IMAGE 43





IMAGE 45

### servicing solenoid valve

#### FOR ALL MODELS

- 1. Disassemble tap by following instructions on Page 16
- 2. With internals exposed, disconnect solenoid lead and detach solenoid valve using maintenance tool provided. **IMAGE 48**
- 3. Disassemble solenoid valve and service as necessary.
- 4. Check for any damage to membrane & replace if necessary. **IMAGE 49**

# Note: orientation of membrane - larger white circular surface faces up

- 5. Check there is a sealing o-ring attached to the bottom part of solenoid. If the o-ring has been left in the tap body, take it out and re-attach to the bottom of solenoid. **IMAGE 50**
- 6. Re-assemble solenoid valve and reconnect solenoid lead.
- 7. Re-assemble tap by following instructions on Page 16





IMAGE 48

IMAGE 49



IMAGE 50

### sensor programming

### electra models only

The program setting of the sensor can be changed to suit different spout lengths, or to adapt to difficult light conditions. To access sensor, remove the tap from the hob mount base following instructions on Page 16

To program the sensor, follow the instructions below.

- 1. Disconnect power to sensor.
- 2. Reconnect power and wait for 5 seconds. The red LED light in the sensor lens will turn on for 3 seconds, and then turn off by itself.
- Now press and hold the blue button located on the back of the sensor – the red LED will turn on. Keep holding for 3 seconds until the LED turns off. Release the button and you are now in program mode. IMAGE 55 & 56
- Within 5 seconds, choose your program by pressing the button the same number of times that corresponds with push column & setting in the CHART in IMAGE 57 ▶
- 5. Once the program is chosen, wait for 3 seconds. The LED will blink back to confirm the program number it is set to.
- 6. The sensor is now set.





IMAGE 56

PUSH #	SETTING
1	Factory Settings
2	Intelligent Afterflow 2 sec +/- 1 sec
3	Afterflow 1 sec
4	Afterflow 8 sec
5	24 hr Autoflow, 30 sec ON
6	72 hr Autoflow, 30 sec ON
7	Autoflow OFF
10	Reduced Sensitivity Mode (for difficult light conditions)
11	Recognition range for 170mm spout
12	Recognition range for 120mm spout
15	Maximum flow period of 2 minutes ON
16	Maximum flow period of 2 minutes OFF

IMAGE 57

### maintenance

Enware Product should be cleaned with a soft damp cloth using only mild liquid detergent or soap and water.

Do not use cleaning agents containing a corrosive acid, scouring agent or solvent chemicals or cream cleaners.

Use of unsuitable cleaning agents may damage surface. Any damage caused in this way will not be covered by warranty.

If re-greasing always use a silicon based potable water approved lubricant such as Hydroseal 'O' Ring Lubricant or Molykote 111 silicone based grease.

#### **CLEANING THE FILTERS ON INLET HOSES**

- 1. Ensure the water supply is turned off.
- 2. Disconnect the flexi hose from  $G3/8''-\frac{1}{2}''$  adaptor.
- 3. Remove the  $G3/8''-\frac{1}{2}''$  adaptor from isolation valve.
- 4. Clean any collected debris from the filter.
- 5. Re-assemble the water supply connection to tap.

# troubleshooting

FAULT/SYMPTOM	CAUSE	RECTIFICATION
Leaking or dripping water from outlet	Solenoid has debris caught in the mechanism	Remove solenoid and inspect solenoid membrane for debris. Remove debris and/ or replace solenoid membrane if damaged. Follow steps in Maintenance and Servicing Instructions.
	Supply water pressure is too high. Incorrect installation	Check water pressure and install a pressure reduction valve if greater than 500 kPa.
	Solenoid valve is damaged	Replace Solenoid valve. Follow steps in Maintenance and Servicing Instructions.
No water flow from tap	Water turned off	Turn water on.
	Power supply is turned off	Turn on power supply.
	Solenoid seized up due to excessive water pressure or water hammer	Release water pressure from solenoid, either by disconnecting the flexible hose, or by dismantling the tap and unscrewing the solenoid. Sensor tap should start working again. Install a Pressure Reduction Valve (PRV) before the tap to prevent the problem recurring.

Note: Small sized storage type electric water heaters can often cause excessive pressure in the hot water line (down stream to the heater) while heating, typically above 1000kPa. This excessive pressure may cause the sensor tap solenoid to malfunction and must be regulated to under 500kPa as required by AS/NZS 3500.1-2003 Clause 3.3.4 – Maximum pressure within buildings. PLV installed at the inlet of the heater does not limit the outlet pressure of heater. Any malfunction due to excessive pressure is not covered by warranty.

		Check TPR valve is working on hot water heater. Replace if necessary.
	Electronic component failure – solenoid valve, sensor, battery or transformer	Follow steps in Maintenance and Servicing instructions, and replace if needed. Check that the red light turns on in the sensor lens for a few seconds when power is first connected. If it does, the problem is likely to be with the solenoid. If not, either sensor, or power pack, or both may be faulty. Replace battery if required.
	Power supply failure	Check that the power cable is not pinched between the fixing clip and tap body. Replace sensor if cable is damaged
Water is leaking from base of tap body	Solenoid valve is damaged or o-rings are worn	Remove Solenoid and inspect. Replace solenoid or o rings if damaged. Follow steps in Maintenance and Servicing instructions.
	Tap body shroud is not fully engaged into tap hob base	Ensure internal components are aligned and that shroud is fully engaged into hob base, being careful not to pinch any electronic cables
	Solenoid valve loose in body	Ensure solenoid valve is secure in tap body – tighten if needed, however do not overtighten. Follow steps in Maintenance and Servicing instructions.

Constant flow of water	Solenoid valve is damaged or solenoid has debris caught in the mechanism	Remove solenoid and inspect solenoid membrane for debris. Remove debris and/or replace solenoid if damaged.
	Electronic component failure – solenoid valve/ sensor/ battery/ power supply	Follow steps in Maintenance and Servicing instructions and replace if needed.
	Power supply is turned off	Turn on power supply
	Sensor is constantly activated by an object in front of sensor, such as a raised sink or bowl	Remove interfering object
Tap turns on randomly or erratically	Sensor beam interference by reflections off mirror or high- visibility vest	Remove interfering object. (For Electra gooseneck models) adjust sensor range or sensitivity by reprogramming the sensor to "Reduced Sensitivity Mode" (refer to sensor programming – Page 26).
	Incompatible lighting or electrical interference in the environment	Remove interference. (For Electra gooseneck models) adjust sensor range or sensitivity by reprogramming the sensor to "Reduced Sensitivity Mode" (refer to sensor programming – Page 26).
Battery only lasts a few weeks or days	Sensor has been permanently damaged due to reversed polarity (being incorrectly connected)	Replace sensor and battery. (A new battery typically lasts between 3 to 5 years, depending on frequency of use). Follow steps in Installation Instructions ( Page 7) and Maintenance and Servicing instructions.
Sensor red light constantly blinks	Low voltage Battery is running out, or power supply is insufficient	Replace battery. Check if power cable is not pinched or damaged. Check power supply.
Water stop slowly – long after flow period greater 1 second if hands have been in sensor range for longer than 5 seconds	Solenoid has debris caught in the mechanism	Remove solenoid and inspect solenoid membrane for debris. Remove debris and/or replace solenoid if damaged. Follow steps in Maintenance and Servicing instructions.
Low flow from tap	Debris caught in flow path	Remove aerator, solenoid and mesh strainers, then inspect and clean pathway. Follow steps in Maintenance and Servicing instructions.
	Aerator or flow control is blocked by debris	Remove aerator and flow control from spout and clean debris
	Temperature adjustment handle on side is positioned incorrectly (for models with optional mixer function)	Turn handle to suitable position to allow full flow. Follow steps in Modification to Pre-set Temperature ( Page 9)
	Inlet hose is kinked	Re-install inlet hose without any sharp bends, replace hose if necessary

#### For further assistance, contact the Enware Service Team on 1300 369 273.

### product warranty for Australia

Enware Australia Pty Limited (ACN 003 988 314) ("we" or "us") warrants that this product (also referred to as "our goods") will be free from all defects in materials and workmanship for 24 months\* from the date of purchase. Our liability under this warranty is limited at our option to the repair or replacement of the defective product or part, the cost of repair of the defective product or part or the supply of an equivalent product or part, in each case if we are satisfied the loss or damage was due to a defect in the materials or workmanship of the product or part. All products must be installed in accordance with the manufacturer's instructions, the PCA, and AS/NZS3500 including any other applicable regulatory requirements.

# making a claim

To make a claim under this warranty you must notify us in writing within 7 days of any alleged defect in the product coming to your attention and provide us with proof of your purchase of the product and completed the Online Product Service and Warranty Form available on website www.enware.com.au. All notifications and accompanying forms must be sent to us marked for the attention of the Enware Australia Pty Limited, 9 Endeavour Road, Caringbah NSW 2229. We can also be contacted by telephone (1300 369 273) or by email (info@enware.com.au).

Your costs in making a claim under this warranty, including all freight, collection and delivery costs, are to be borne and paid by you. We also reserve the right at our cost to inspect any alleged defect in the product wherever it is located or installed or on our premises.

\*Conditional warranty: Jumper Valve Tapware - 2 Years: 1 year parts and labour on the complete assembly then a further 1 year parts only warranty is applicable

Ceramic Disc Cartridge Tapware - 10 Years: 10 Year ceramic disc cartridges – parts only; 1 Year parts and labour on complete assembly

Outlets - 1 Year parts and labour on the complete assembly

### exceptions

This warranty does not apply in respect of any damage or loss due to or arising from:

a) Failure by you or any other person to follow any instructions for use (including instructions and directions relating to the handling, storage, installation, fitting, connection, adjustment or repair of the product) published or provided by us;

b) Failure by you or any other person responsible for the fitting, installation or other work on the product to follow or conform to applicable laws, standards and codes (including the AS/NZ 3500 set of Standards, all applicable State and Territory Plumbing Codes, the Plumbing Code of Australia and directions and requirements of local and other statutory authorities); or

c) Any act or circumstance beyond our control including faulty installation or connection, accident, abnormal use, acts of God, damage to buildings, other structures or infrastructure and loss or damage during product transit or transportation.

### other conditions

Except as provided or referred to in this document, we accept no other or further liability for any damages or loss (including indirect, consequential or economic loss) and whether arising in contract, tort or otherwise. Any benefits available to you under this warranty are in addition to any non-excludable rights or remedies you may have under applicable legislation, including as a "consumer" under the Australian Consumer Law. To that extent you need to be aware that: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.



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