Since 1949
Acme Sanitary Ware Co. Ltd.
1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong
Tel: 2388 7171 Fax: 2710 8012
Email: acme@acmesanitary.com.hk
Website: www.acmesanitary.com.hk

stern

PROJECT		REF		REV	ITEM CODE	
LOCATION		DATE			PAGE	

SANITARY WARE SPECIFICATION SHEET

Item Descriptions	Stern (Israel) "Quadrat L" Chrome plated wall-mounted long spout sensor faucet in AC Supply with 5m wire AC 110-240 Vac 50/60Hz to 9V 0.3A **IP68 waterproof switching transformers**
Dimensions	220 mm Long
Model	Quadrat LE
Code Number	351205
Finish	Chrome Plated
Supplier	Acme Sanitary Ware Co. Ltd Mr. Eric Wong/ Mr. Wilson Hung
Contact Tel/Fax	(852) 2388-7171 / (852) 2710-8012
E-mail	acme@acmesanitary.com.hk
Website	www.acmesanitary.com.hk

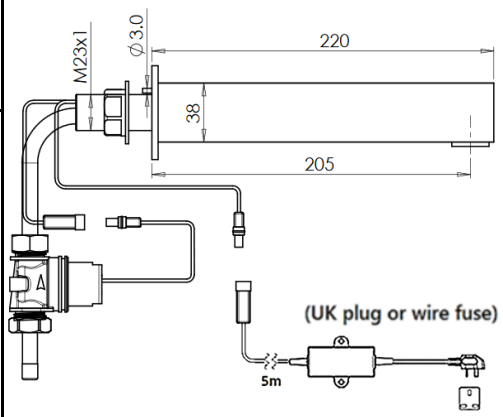
QUADRAT LE Ref # 351205
Touch-free wall-mounted electronic faucet. Activated by an infrared sensor. For cold or premixed water. Long spout version. Chrome plated body, other finishes available. Adjustable settings by remote control: sensor range, security time, delay in, delay out, on-off and reset to factory settings.

Application:
Wall-mounted faucet. Combines a minimalistic design with vandal resistant features. Helps washrooms stay clean and saves water. Easy installation. Long lasting even in the harshest installation sites. Ideal for shopping malls, sport facilities and entertainment centers.

Use:
The faucet will automatically activate when users place their hands in the sensor range and will stop once the users remove their hands.

Power supply for battery versions:	6x1.5V AA battery (Quadrat B) 1X9V battery (Quadrat 2030B, Quadrat DPB)
Power supply for electricity versions:	9V transformer (Quadrat E, DPE, 2030 E models)
Recommended water pressure:	0.5-8.0 bar (7-116 PSI) With water pressure of more than 8 bars, use a pressure reducing valve for reduction
Sensor range:	Self-adjusting sensor Adjustable with remote control
Minimum sensor range:	35mm / 1.38"
Maximum sensor range:	300mm / 11.81"
Security time:	90 seconds. Can be reduced with optional remote control
Hot water temperature:	Max. 70°C

Illustration/ Drawing



Installation:
Wall mounted concealed

Water supply:
Cold or premixed water (1 inlet)

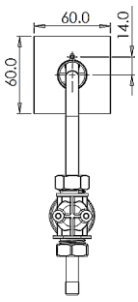
Water temperature:
Max. 70 °C

Operating pressure:
0.5 - 8.0 bar

Power source:
9V Transformer

Stern Soap & Water:
Quadrat matching soap dispenser

Lead free:
Quadrat LE AB1953

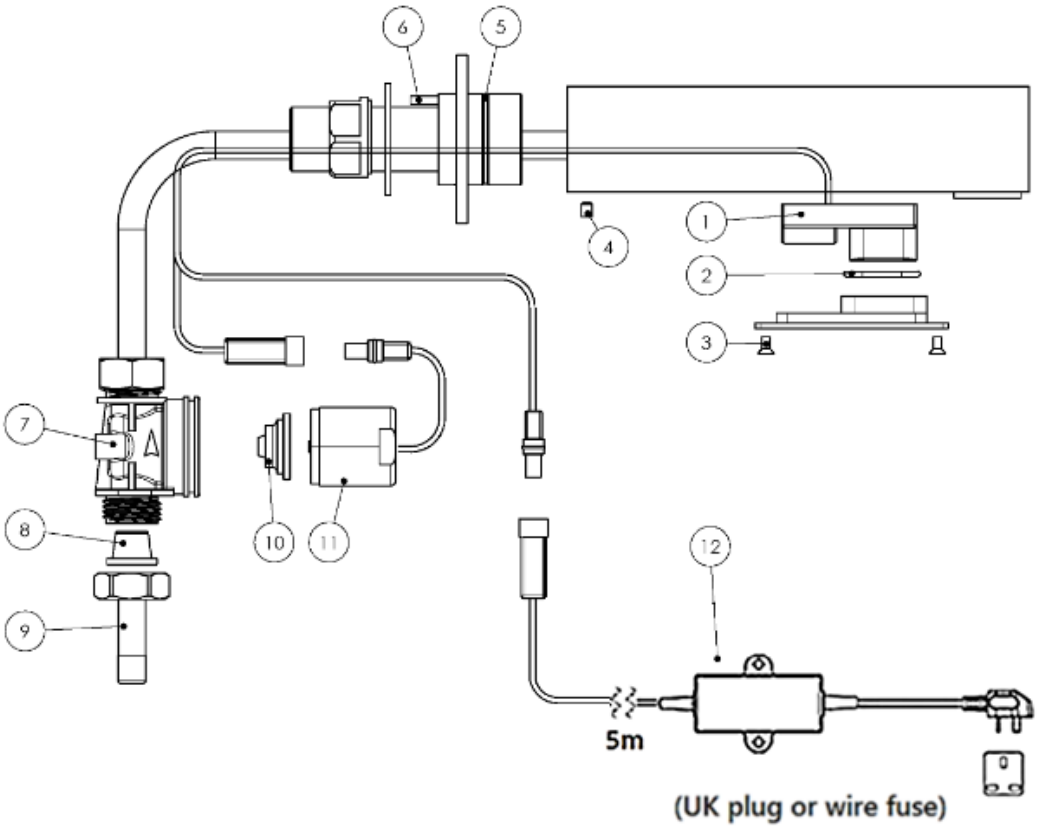


** All information of the above is for the reference only. No prior notice is made if any changes.*

Acme Sanitary Ware Co. Ltd.
1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong
Tel: 2388 7171 Fax: 2710 8012
Email: acme@acmesanitary.com.hk
Website: www.acmesanitary.com.hk
Since 1949

SPARE PARTS LIST

Quadrat LE
(351105)



Quantity	Part Number	Description	Cat. No.
	-	**Seals and Screws Kit**	**07210035**
1	2	O-ring	
1	5	O-ring	
1	4	Screw	
1	6	Screw	
2	3	Screw	
	-	**Self Adaptive Sensor Kit**	**07220239**
1	1	Self Adaptive Sensor	
1	2	O-ring	
	-	**Solenoid BS-Housing Kit**	**07231008**
1	7	Solenoid valve's body	
1	8	Filter	
1	9	Nipple	
	-	**Solenoid Valve Kit**	**07230017**
1	11	Solenoid valve	
1	10	Diaphragm	
	10	**Diaphragm**	**04500001**
	12	**Transformer**	TBC

Note: In order to locate the relevant spare part, please check the corresponding parts and part number in the drawing. Minimum order quantity will be required.

** All information of the above is for the reference only. No prior notice is made if any changes.*

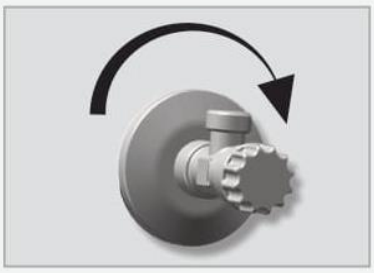
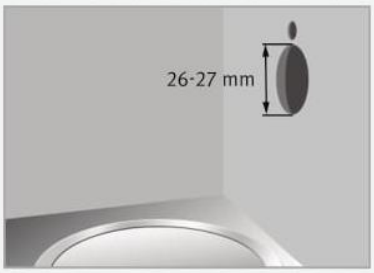
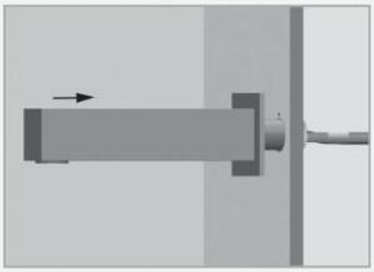
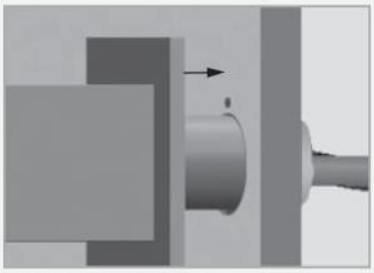
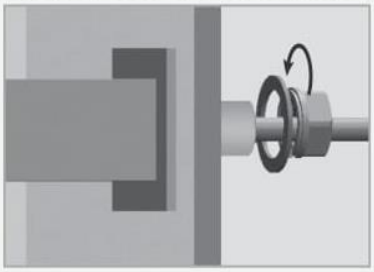
Acme Sanitary Ware Co. Ltd.
1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong
Tel: 2388 7171 Fax: 2710 8012
Email: acme@acmesanitary.com.hk
Website: www.acmesanitary.com.hk
Since 1949

stern

FAUCET INSTALLATION

QUADRAT B / E

STEP 1 – INSTALLING THE FAUCET

1	Shut off the water supply.	
2	Drill a hole (26 to 27 mm) where you want to install the spout of the faucet, and a small hole just above the previous one for the anti-rotation pin.	
3	Remove the gasket, the disk, the nut and the flexible pipe from the base of the faucet and insert the faucet through the wall. **Note:** To remove flexible pipe rotate counter clockwize.	
4	Secure the rosette into position using the anti rotation pin.	
5	Fix the base behind the wall with the hexagonal nut and the disk. Reinstall the flexible pipe into the base. Rotate the pipe clockwize.	

Since 1949
Acme Sanitary Ware Co. Ltd.
1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong
Tel: 2388 7171 Fax: 2710 8012
Email: acme@acmesanitary.com.hk
Website: www.acmesanitary.com.hk

FAUCET INSTALLATION

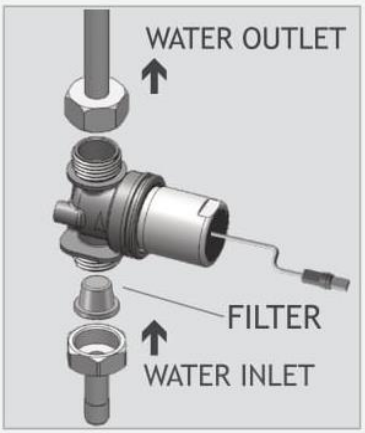
QUADRAT B / E

STEP 2 - CONNECTING THE WATER SUPPLY

1

Fit the flexible pipe coming from the product base to the solenoid valve housing. Fit the water supply inlet to the adapter at the solenoid valve housing.

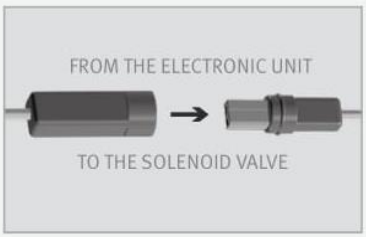
Inlet and outlet should follow the indicating arrow on the solenoid housing.



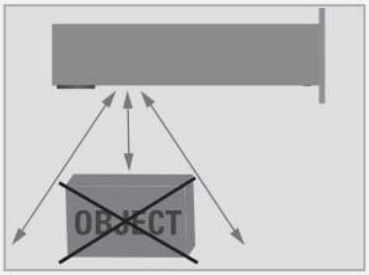
NOTE: Make sure the filter is located between the solenoid housing and the water inlet.

2

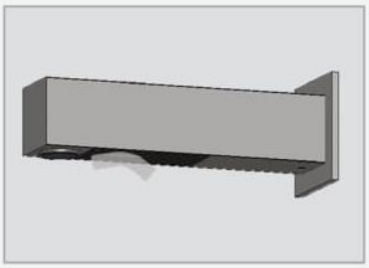
Connect the cable coming from the electronic unit to the solenoid valve.



IMPORTANT: This product includes a self adjusting sensor.
The ideal sensor range for the specific location will be set automatically.



Before proceeding, check that no objects are in front of the sensor besides the washbasin.



Now, remove the protective sticker that covers the sensor.

Acme Sanitary Ware Co. Ltd.
1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong
Tel: 2388 7171 Fax: 2710 8012
Email: acme@acmesanitary.com.hk
Website: www.acmesanitary.com.hk
Since 1949

FAUCET INSTALLATION

QUADRAT B / E

STEP 3 – CONNECTING THE POWER SOURCE

1a	For QUADRAT B: Connect the other cable coming from the electronic unit at the QUADRAT base to the battery box.	
1b	For QUADRAT E: Connect the other cable coming from the electronic unit at the QUADRAT base to the transformer. Plug the transformer into the electricity socket.	
2	After you have connected the power source (battery or transformer) wait 15 seconds in order to allow the system to set the ideal sensor range. As an indication that the self adjusting is taking place, a LED in the sensor eye will flash continuously. **The solenoid valve will be opened and closed for 1 second as an indication that the ideal sensor range is set and the product is ready for use.**	
3	Turn on the central water supply. Check for leaks.	
NOTE: QUADRAT includes a special aerator that allows you to adjust the water stream direction on site in order to prevent water splashing if needed. To change the angle of the water stream, simply move the adjustable tilting plate by pressing it smoothly. **ATTENTION!** the aerator is tightened to prevent removal by hand.		
If the automatically adjusted sensor range is not satisfactory to your purposes, please refer to the section entitled “Settings adjustment”.		

Since 1949
Acme Sanitary Ware Co. Ltd.
1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong
Tel: 2388 7171 Fax: 2710 8012
Email: acme@acmesanitary.com.hk
Website: www.acmesanitary.com.hk

stern

TROUBLESHOOTING

PROBLEM	INDICATOR	CAUSE	SOLUTION
No water coming out of the faucet:	1.Sensor flashes continuously when user's hands are within the sensor's range.	Low battery.	Replace battery
	2. LED in the sensor does not flash once when user's hands are within the sensor's range.	1. Range is too short.	Increase the range
		2. Range is too long.	Decrease the range
		3. Battery is completely used up	The battery must be replaced.
		4. Unit is in "Security Mode"*	
		5. Sensor is picking up reflections from the washbasin or another object.	Eliminate cause of reflection.
	3. LED in the sensor flashes once when user's hands are within the sensor's range.	1. Debris or scale in solenoid.	Unscrew solenoid, pull out the plunger and the spring from the solenoid and clean them. Use scale remover material if needed. When replacing the plunger, please make sure that the spring is in vertical position.
		2. The central orifice in the diaphragm is plugged or the diaphragm is torn	Clean the orifice or replace diaphragm.
		3. The water supply pressure is higher than 8 bar.	Reduce the supply water pressure.
		4. The water supply pressure is under 8 bars and yet the pressure in the faucet's body is higher. This situation could be caused by a sudden increase in the water supply pressure that the backcheck prevents from dropping, even after water supply pressure drops under 8 bars.	Shut off water supply and unscrew one of the flexible pipes in order to reduce the pressure that blocks the product.
Water flow from spout does not stop:	1. Sensor flashes once when user's hands are within the sensor's range.	1. Debris or scale in diaphragm	Clean the orifice or replace diaphragm.
		2. Connectors between the electronic unit and the Dual power input box are disconnected or not connected properly	Connect the connectors properly. Refer to pages 8/13/17 to see how.
	2. LED in the sensor does not flash once when user's hands are within the sensor's range.	1. Sensor is dirty or covered.**	Clean or eliminate case of interference.
		2. Sensor is picking up reflections from the washbasin or another object.	Decrease the range or eliminate cause of reflection.
Water flow diminished		Filter or aerator is clogged	Remove, clean, re-install

* "Security Mode": If the sensor is covered for more than 90 sec. the faucet will automatically shut off water flow. To return to normal operation remove any blockage.

** In this case, the water flow will stop anyway after 90 seconds because of the security time.