



SDS236T Instant Match Transformer



QUICK CONNECT GUIDE



Bluetooth® wireless technology

A wireless Bluetooth connection may be used to allow the SDS236T (755.678) Whale Instant Match® transformer to communicate with the Mira Advance Flex Extra (J09N) shower without the use of a physical hardwired connection or external flow sensor to activate the pump. To set up the wireless connection, please follow the process below.



Important Information



WARNING

Please read the following information before setting up a Bluetooth® wireless technology connection between the Whale Instant Match® transformer and Mira® Advance Flex Extra (J09N) shower:

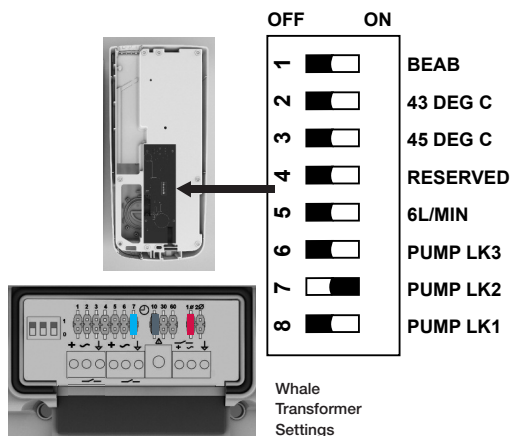
- The electrical wiring must conform to EU wiring regulations BS7671:2008 Part 7 (17th Edition).
- The Bluetooth® function of the Whale Instant Match® transformer will **only work** with the Mira® Advance Flex Extra (J09N) shower.
- Previous Whale Instant Match® Wireless transformers **cannot be** connected wirelessly to the Bluetooth® wireless technology enabled Mira Advance Flex Extra Shower (J09N).
- Bluetooth® wireless technology enabled transformers can be easily identified by the blue test button.
- For optimum signal strength, mount the transformer within 5 metres of the shower.
- Locating the transformer outside of a 5 metre radius may cause a communication breakdown between the transformer and shower, resulting in intermittent or complete failure to operate.
- Be aware that in very rare situations, dense building material, metallic objects such as steel baths and foil lined plaster board, or electronic devices may interfere with the Bluetooth® wireless technology signal and result in intermittent failure. In this situation you should relocate the transformer closer to the shower.
- A hardwired connection must be established if a Bluetooth® wireless technology connection cannot be made between the shower and transformer.
- If any component or cord is damaged, it must be replaced by a qualified person to avoid a hazard.

Set Up

1. Shower settings

• Before beginning the Bluetooth® wireless technology registration process, please ensure that the "Pump LK2" switch inside the Mira® Advance Flex Extra (J09N) has been set to the "ON" position, and that the "Pump LK1" and "Pump LK3" switches remain in the "OFF" position as per the diagram shown.

• At this stage please ensure that your transformer is set to be used with Bluetooth® wireless technology: the flow sensor setting must be set to 7 for "Bluetooth" and the pipe inlet diameter must be set to 1 for 15mm.



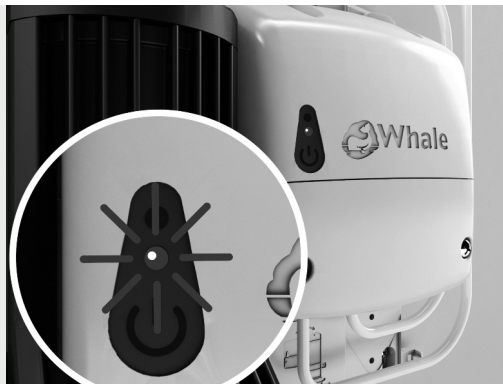
Blue Jumper - Sensor Position 7
 Grey Jumper - Over run 10 Seconds
 Red Jumper - Pipe inlet 15mm



2. Transformer set up

- Switch the mains electric supply to the transformer **ON** and wait to hear the audible beep from the transformer. The light on the transformer will now flash red to indicate that a Bluetooth® connection has not yet been established.
- Press and HOLD the blue test button on the transformer until the light flashes red and green to indicate that the transformer is now in pairing mode.

NOTE: You now have 120 seconds to pair the transformer to the shower.



3. Shower set up

- Ensure that the electric supply to the shower is turned **OFF**. Then turn the dial on the shower to **FULL COLD**.

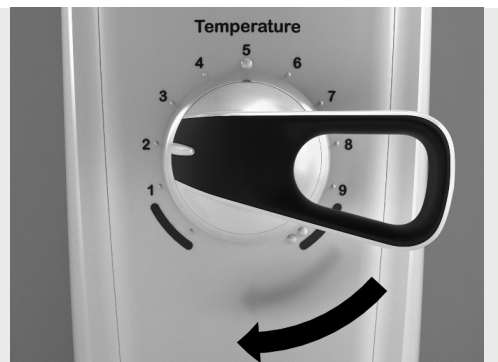


4. Configuring the shower

- Switch the mains electric supply to the shower **ON**, Start/Stop button will illuminate.
- Within **10** seconds press and HOLD the Start/Stop button on the shower until the Start/Stop light on the black button goes off.



5. Slowly turn the dial on the shower to position 2



6. Pairing the shower to the Whale Instant Match® transformer

- Press and release the start/stop button on the shower. The status light on the shower will now flash **blue** to indicate that the shower is in pairing mode.
- The status light on the shower will then flash white and you will hear an audible beep from the shower to indicate that the transformer has successfully been paired to the shower.
- The Whale® transformer will flash green only to indicate that it is paired to the Mira® shower.



7. Completing the pairing

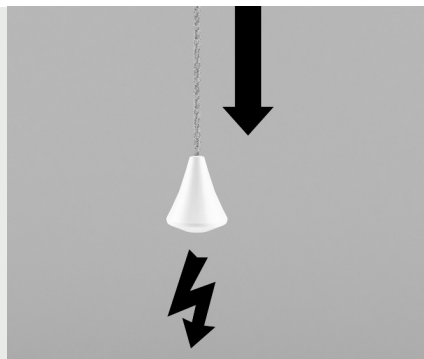
- Turn the temperature control to full cold and press the Start/Stop button on the shower. The shower will now return to normal standby mode.
- You may now follow the “Post Installation Procedure” in the Mira® Advance Flex Extra (J09N) Instruction Manual (page 25) if necessary.



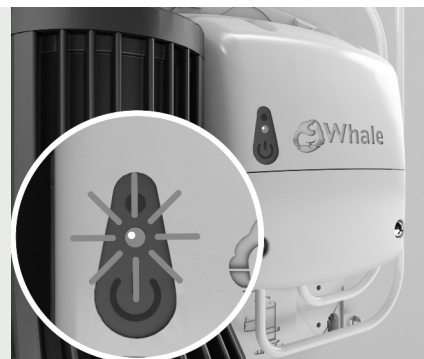
Bluetooth® wireless technology Unpairing

Service work that may need to be carried out on the Mira® Advance Flex Extra (J09N) shower e.g. the renewal of the control PCB board may require the Bluetooth® wireless technology connection between the shower and Whale Instant Match® transformer to be terminated and paired again. To unpair the transformer from the shower, please follow these steps.

1. Switch the mains electric supply to the shower OFF

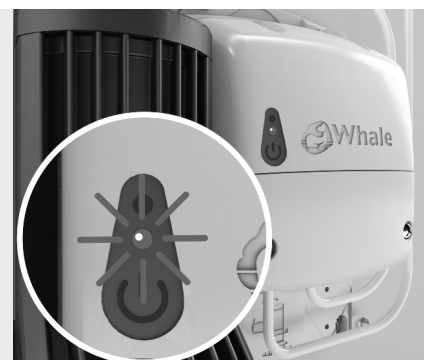


2. Be sure to leave the mains electric supply to the pump ON. The light on the transformer will flash blue



3. Press and HOLD the test button on the transformer until the light flashes red. The transformer and shower have now been unpaired

NOTE: To pair the shower to the transformer again, please follow the Bluetooth® wireless technology set up procedure.

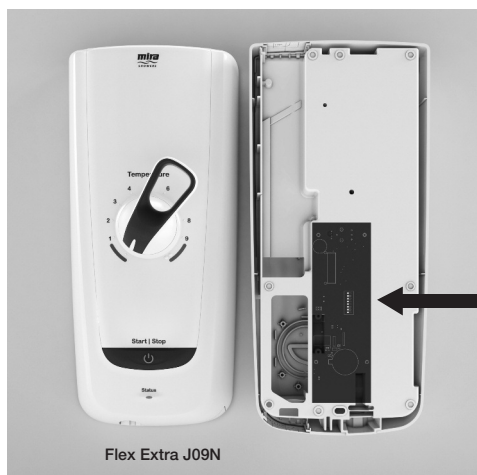


Whale Instant Match® Transformer Hardwired Connections

Where a Bluetooth® connection cannot be established between the transformer and shower, a hardwired connection may be used (on compatible showers) to activate the pump. The hardwired connection allows the transformer and shower to communicate by means of a physical wired connection, eliminating the need for an external flow sensor. Compatible showers and their pump connections may be found below.

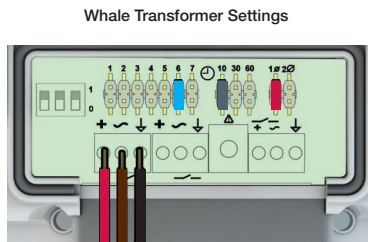
Mira® Advance Flex Extra 1.1785.005 (J09N)

Wired Connections to the WHALE INSTANT MATCH® Transformer



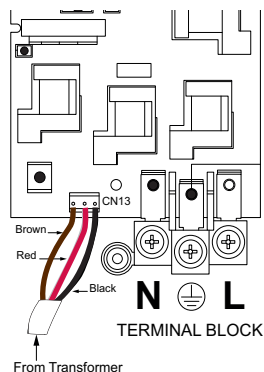
Ensure all LK settings are set to 'OFF' for hardwired connection

OFF	ON	
<input type="checkbox"/>	<input type="checkbox"/>	BEAB
<input type="checkbox"/>	<input type="checkbox"/>	43 DEG C
<input type="checkbox"/>	<input type="checkbox"/>	45 DEG C
<input type="checkbox"/>	<input type="checkbox"/>	RESERVED
<input type="checkbox"/>	<input type="checkbox"/>	6L/MIN
<input type="checkbox"/>	<input type="checkbox"/>	PUMP LK3
<input type="checkbox"/>	<input type="checkbox"/>	PUMP LK2
<input type="checkbox"/>	<input type="checkbox"/>	PUMP LK1



Blue Jumper - Sensor Position 6
Grey Jumper - Over run 10 Seconds
Red Jumper - Pipe inlet 15mm

Connection to Mira® Advance Flex Extra J09N Shower



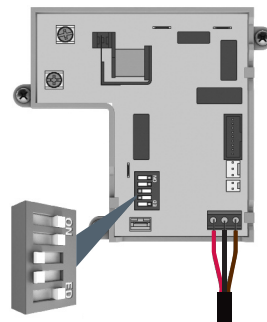
Whale Instant Match® Transformer Hardwired Connections Cont'd

Triton® Safeguard + Omnicare Design, Omnicare Style, T150Z+

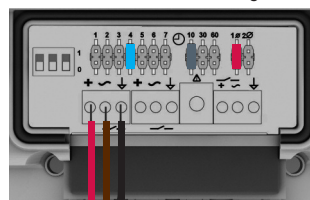
Wired Connections to
the Whale Instant
Match® Transformer



Triton® Shower Connections and Settings



Whale® Transformer Settings



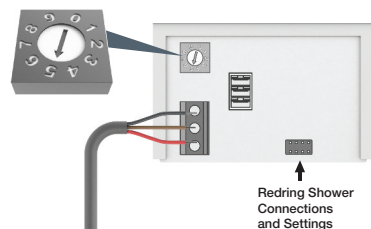
Blue Jumper - Sensor Position 4
Grey Jumper - Over run 10 Seconds
Red Jumper - Pipe inlet 15mm

Redring® Selectronic WP (SEL85WP or SEL95WP)

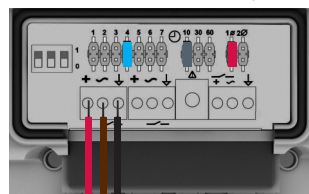
Wired Connections to the Whale
Instant Match® Transformer



Redring® Shower Connections and Settings



Whale® Transformer Settings



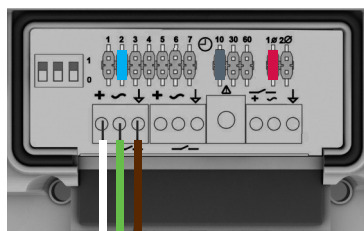
Blue Jumper - Sensor Position 4
Grey Jumper - Over run 10 Seconds
Red Jumper - Pipe inlet 15mm

Whale Instant Match® Transformer Flow Sensor Connections

An external flow sensor should be used where a shower is not compatible with a Bluetooth® wireless technology or hardwired connection to activate the pump. Compatible flow sensors and their connections to the transformer are listed below.

Sika® Sensor Connection

Whale® Transformer Settings



Blue Jumper - Sensor Position 2
Grey Jumper - Over run 10 Seconds
Red Jumper - Pipe inlet 15mm



Sika® Sensor

Please ensure that water flow through the sensor is in the direction of the arrow on the sensor.

Gems® Sensor Connection

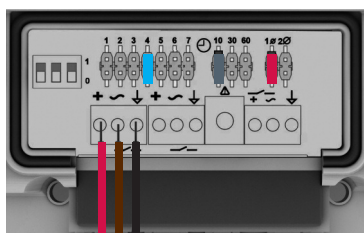
There are two versions of Gems® flow sensor:

1000 pulses per litre (ppl) and 2200 ppl.

Blue jumper position 3 = 1000 ppl

Blue jumper position 4 = 2200 ppl (shown below)

Whale® Transformer Settings



Blue Jumper - Sensor Position 4
Grey Jumper - Over run 10 Seconds
Red Jumper - Pipe inlet 15mm



Gems® Sensor

Please ensure that water flow through the sensor is in the direction of the arrow on the sensor.

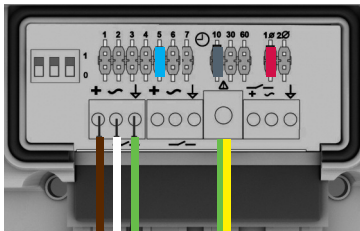
Whale Instant Match® Transformer Flow Sensor Connections Cont'd



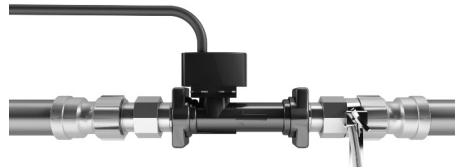
Grundfos® (Venturi) Connection

When connecting to the Grundfos® Venturi sensor it is important to connect an earth wire from the Venturi sensor to the signal earth connection on Whale® transformer (shown below).

Whale® Transformer Settings



Blue Jumper - Sensor Position 5
Grey Jumper - Over run 10 Seconds
Red Jumper - Pipe inlet 15mm



Venturi® sensor

Please ensure that water flow
through the sensor is in the
direction of the arrow on the sensor.

Whale Instant Match® Transformer Flow Switch Connections

In a situation where a Bluetooth® wireless technology or hardwired connection with the shower cannot be established, or a suitable flow sensor has not been fitted, the Whale SDS236T Instant Match transformer can be used with an AK1568 flow switch to activate the pump.

Electric Shower Settings

- Step 1: Turn Dip switch 2 to the 'ON' position.
 Step 2: Move red jumper to pipe size '1' for 15mm inlet pipe.
 Step 3: Move the blue jumper to increase or decrease the pump speed as required, using the table below as a guide.
 Step 4: Move the grey jumper to increase or decrease the pump overrun if necessary.

Jumper Position	Flow Rate (LPM)
1.	4.5 - As shown opposite
2.	5.0
3.	5.5
4.	6.0
5.	6.5
6.	7.0
7.	7.5

- Flow rates are nominal values only. This will vary depending on pipework.

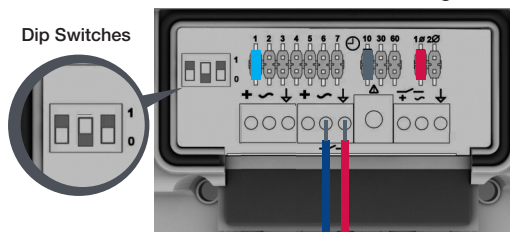
Flow Switch



Please ensure that water flow through the sensor is in the direction of the arrow on the sensor.

Whale® Transformer Settings

Dip Switches



Whale Instant Match® Transformer Flow Switch Connections Cont'd



Mixer Shower Settings

- Step 1:** Turn Dip switch 2 to the 'ON' position.
- Step 2:** Move red jumper to pipe size '2' for 22mm inlet pipe.
- Step 3:** Move the blue jumper to increase or decrease the pump speed as required, using the below table as a guide.
- Step 4:** Move the grey jumper to increase or decrease the pump overrun if necessary. 30 is the recommended setting for use on mixer showers.

Note: An additional flow switch is available in the AK1570 Mixer Valve Conversion kit (sold separately).

Jumper Position	Flow Rate (LPM)
1.	7.5 - As shown opposite
2.	8.0
3.	8.5
4.	9.0
5.	9.5
6.	10.0
7.	11.0

- Flow rates are nominal values only. This will vary depending on pipework.

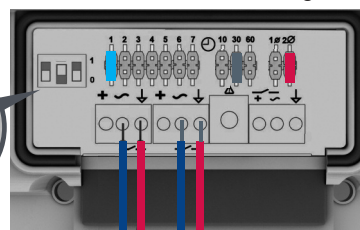
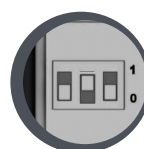
Flow Switch x 2



Please ensure that water flow through the sensor is in the direction of the arrow on the sensor.

Whale® Transformer Settings

Dip Switches



Blue Jumper - Sensor Position 1
Grey Jumper - Over run 30 Seconds
Red Jumper - Pipe inlet 22mm

©Copyright Whale 2018 - All rights reserved. Reproduction in whole or in part without permission is prohibited. WHALE® and WHALE INSTANT MATCH® are registered trademarks of Munster Simms Engineering Limited, Bangor, Northern Ireland trading as Whale. Whale's policy is one of continuous improvement and we reserve the right to change specifications without prior notice. Illustrations are for guidance purposes only. Neither the accuracy nor completeness of the information contained in this or any product literature is guaranteed by the Company and may be subject to change at its sole discretion.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Munster Simms Engineering Ltd (trading as Whale) is under licence. Other trademarks and trade names are those of their respective owners.

MIRA® is a registered trade mark of Kohler Mira Limited.

TRITON® is a registered trade mark of Triton Showers a division of Norcross Group (Holdings).

REDRING® is a registered trade mark of Redring Xpelair Group Limited.

SIKA® is a registered trade mark of Dr. Siebert & Kuhn GmbH & Co. KG

GEMS® is a registered trademark of Gems Sensors & Controls.

GRUNDFOS® is a registered trademark owned by Grundfos Management A/S or Grundfos A/S, Denmark.



0845 0694 253



drainagesupport@whalepumps.com



www.whalepumps.com



@Whalecare



**Whale, 2 Enterprise Road,
Bangor, Co. Down,
BT19 7TA, N.Ireland**

Ref. 182.606_v2_0218