

embertec[®]

ENERGY EFFICIENCY TECHNOLOGIES



Embertec SmartSwitch[™] AV(M)

Automatic Powerdown

EmbertecAV-ET-01



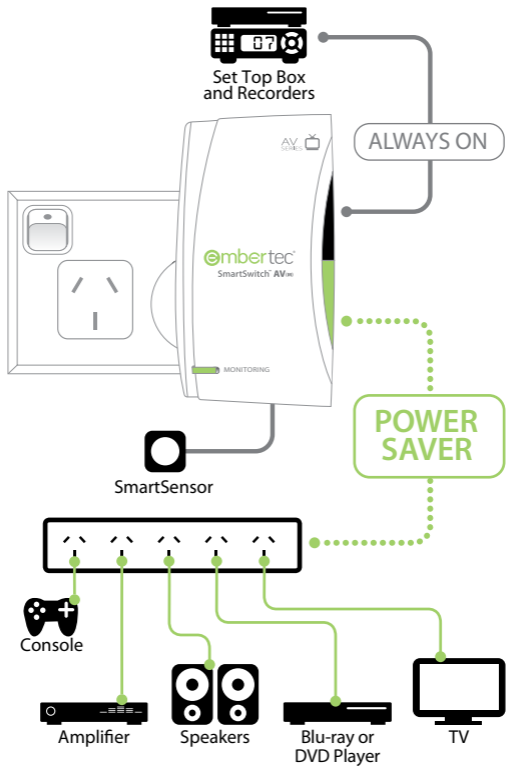
Instruction Booklet

PATENTS GRANTED AND PATENTS PENDING

Quick Installation Guide

Setting Up the Embertec SmartSwitch™ AV(M)

1. Switch off the power at wall socket, unplug your existing powerboard and then plug it into the 'Power Saver Socket'.
2. Plug AV equipment that can automatically be switched off, into the powerboard.
3. Identify equipment that requires constant power for cool down period, timers, program guides and recording features, and plug into the socket marked 'Always On', or into another wall socket. A powerboard may also be plugged into the "Always on" socket.
4. Connect the supplied SmartSensor cable to the underside of the Embertec SmartSwitch™ AV(M). Ensure this is plugged in firmly.
5. Place the SmartSensor in a convenient location that is in line of sight. Close to your television is the best position, and within normal operation of your existing remote control(s).
6. Plug the Embertec SmartSwitch™ AV(M) into a 230V or 240V power point, and turn the power point on at the wall.
7. The LED monitoring light on the Embertec SmartSwitch™ AV(M) will now light up for 3 seconds and power is applied to the power saver socket. This also indicates that the SmartSwitch™ AV(M) has performed a load check.



Important

Please retain your instruction book for future use.

In the event that you need assistance with your Embertec SmartSwitch™, please contact us on 1300 033 367 or email us at customerservice@embertec.com. Alternatively, visit us on our website at www.embertec.com

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Your Embertec SmartSwitch™ AV(M)

1. Embertec SmartSwitch™ AV(M)
2. SmartSensor
3. On/Off 'Power Saver' socket indicator light



- The 'Always On' socket (black) is recommended for use with Audio Visual (AV) equipment that requires constant power for timers, program guide and recording features (e.g. DVR, PVR, VCR, Cable, Digital TV Receivers, hard drives or bedside alarms). This will ensure constant power is not interrupted or mistakenly removed.
- The 'Power Saver' socket (green) is recommended for Audio Visual (AV) equipment that can be automatically switched off (e.g. Televisions, amplifiers, stereos, speakers, game consoles, DVDs, CDs, Blu-ray players, lamps).
- LED monitoring light indicates that power is available at the power saver outlet of the Embertec SmartSwitch™ AV(M).
- Overload protection circuit breaker re-set button (on rear of device, not shown).
- 3 pins for use with standard Australian general purpose outlets.
- Infrared SmartSensor activates the 'Power Saver' socket, monitors activity and is also used to set the Active Powerdown. Comes with a 3 metre cable, LED light and integrated push button control.

What you need to know!

Please read this Instruction Booklet before installing your Embertec SmartSwitch™ AV(M).

- The Embertec SmartSwitch™ AV(M) is an electrical device. Normal safety precautions for use of an electrical device must be observed.
- Do not immerse the Embertec SmartSwitch™ AV(M) in water.
- Needles, knives or any other metal or conductive item must not be inserted into any Embertec SmartSwitch™ AV(M) outlet.
- This device does not convert voltage. It must only be used with appliances fitted with an Australian configuration electrical plug (2-pin, or 3-pin) and rated 220–240V AC.
- Ensure the Embertec SmartSwitch™ AV(M) is securely plugged into the wall socket to avoid it slipping out. Ensure cords plugged into the Embertec SmartSwitch™ AV(M) remain tangle free.
- It is recommended to regularly inspect the Embertec SmartSwitch™ AV(M) for damage. The Embertec SmartSwitch™ AV(M) must not be used if it shows any signs of damage.
- This Embertec SmartSwitch™ AV(M) is for indoor household use. Do not use outdoors. Do not use this Embertec SmartSwitch™ AV(M) for anything other than its intended use. Misuse may cause injury.
- Embertec is not responsible for special, incidental, or consequential damages, or loss of data; or any loss or damage arising from intentional misuse of the product. Such damages and loss include, but are not limited to: lost business; business downtime; component/equipment replacement and reconfiguration; and the costs of retrieval of lost data.
- In normal use, this device intermittently emits a green flashing light. People who experience photosensitive epilepsy or other forms of photosensitivity should exercise caution when using the device.

We recommend connecting any Home Theatre Media Centre Computers or appliances containing a hard drive into the 'Always On' socket to prevent accidental removal of power during power cycles. This will prevent damage to, and extend the life of your Home Theatre Projection lamps.

The Embertec SmartSwitch™ AV(M) has 2 power saving functions

1. Standby Powerdown automatically detects and switches off wasted Standby Power when the equipment is left in standby mode.
2. Active Powerdown automatically switches the power off to Audio Visual (AV) equipment connected to the power saver socket after 1 hour, if it has not detected any remote control use.

NOTE: The Embertec SmartSwitch™ AV(M) is programmable and has an Active Powerdown default setting of 1 hour, which can be permanently set to 2 or 3 hours, or temporarily 8 hours (MusicMode™).

When will Active Powerdown Switch the Audio Visual (AV) Equipment off?

- If your Embertec SmartSwitch™ AV(M) detects that your Audio Visual (AV) equipment is on but has not been used for a period of 1, 2, 3 or 8 hours (depending on your settings), the LED light on the SmartSensor will flash for approximately 10 minutes to warn you that power down is imminent.

To continue using your equipment.

- Simply press ANY button on ANY of your existing remote controls or press the button on the SmartSensor once. This will cancel the Active Powerdown and reset the timer to its setting of 1, 2, 3 or 8 hours (according to your setting).

NOTE: A flashing LED always means that your system will shut down completely in a while. Press any remote control button to stop the light flashing and continue using your system.

What Audio Visual Equipment Can Be Used With The Embertec SmartSwitch™ AV(M)?

Embertec SmartSwitch™ AV(M) is a power saving device that is suitable for all Audio Visual (AV) applications and setups, including:

Always On socket

- Audio Visual (AV) equipment that requires constant power for timers, program guides and recording features, such as DVD recorders, pay TV and PVR units, set-top boxes, hard drives or digital receivers
- Certain home theatre projectors that require a cool down period, includes rear projection televisions

Power Saver socket – will be automatically switched off

- Televisions without in-built hard drives
- Home theatre speaker systems
- Game consoles without hard drives
- CD, DVD, and Blu-ray players
- Amplifiers
- Lamps

Turning ON your AV Equipment

- To operate your Audio Visual (AV) components, press any button on any existing remote control(s), or press the button on the SmartSensor. This will apply power to all components and place them in standby mode, ready for use. You can continue using your existing remote(s) to operate your television or other Audio Visual (AV) components in the normal way.

NOTE: To reactivate your TV components, you may be required to press the power button again on the relevant remote after power has been restored.

Turning OFF your AV Equipment

- Simply turn your equipment off in the normal way. Once the Audio Visual (AV) components have been switched off, the Embertec SmartSwitch™ AV(M) will remove power from the Power Saver socket after a delay of approximately 1 minute.

NOTE: The LED light on the SmartSensor will flash for about 60 seconds to warn you that power is about to be removed from the AV power saver outlet.

SmartSensor

The infrared SmartSensor activates the Power Saver socket, monitors activity and is used to set the Active Powerdown timer. The SmartSensor receives signals from any of your remote controls and recognises when you are interacting with your Audio Visual (AV) components. SmartSensor default setting for Active Powerdown is 60 minutes.

Changing settings for Active Powerdown using the SmartSensor

Your Embertec SmartSwitch™ is equipped with a number of settings to suit your lifestyle. You can set your timer to either 1, 2 or 3 hours, depending on usage habits. This means the SmartSensor will flash after the set period, warning of imminent power down. In every case you can continue using your equipment by pressing any button on any remote control.

The default setting is 1 hour, which is aimed to maximise your energy savings.

To change Active Powerdown to 2 or 3 hours, (this may be appropriate for longer movies or programs where remote control activity is unlikely).

1. Ensure your Audio Visual (AV) equipment is switched on.
2. Press and hold down the button on the SmartSensor firmly for 3 seconds, then release. The LED light on the SmartSensor will flash for a few seconds as it enters Settings Mode.
3. As soon as the LED light on the SmartSensor has stopped flashing, immediately begin to set the Active Powerdown to 2 or 3 hours, by pressing and releasing the SmartSensor button, as per the table below.

To set the Active Powerdown timer to:	Press the button on the SmartSensor:	To confirm the setting, the LED light on the SmartSensor will flash:
1 hour (default setting)	Once, then release	1 time
2 hours	Twice	2 times
3 hours	Three Times	3 times

Please make sure the sensor has flashed back 1, 2 or 3 times

What is MusicMode™?

Your Embertec SmartSwitch™ AV(M) is equipped with a unique MusicMode™ feature. This feature enables you to override the Active Powerdown for a period of 8 hours. This feature is great for playing music, parties, video nights or any time you want to keep your appliances on for an extended period of time.

The Embertec SmartSwitch™ AV(M) will revert to its previous setting of 1, 2 or 3 hours after the 8 hour period or after a power down has occurred.

Activating MusicMode™ is easy:

Hold the button on your SmartSensor down for at least 8 seconds, then release. The LED will flash 5 times indicating that MusicMode™ is active.

Remember

1. In this mode your system will stay on for 8 hours, unless you switch your appliances off.
2. Your permanent Active Powerdown timer setting will revert to 1, 2 or 3 hours once you have switched your appliances off, or after 8 hours, **whichever comes first**.

NOTE: Make sure your AV System is on before you start!

Fast Facts

Specifications

- Surge protection is provided to all outlets.
- Australian designed and engineered.
- Conforms with Australian Electrical Safety Standards: AS/NZS 3197:2005 and AS/NZS 3100:2009

What Power is Wasted?

Many of today's appliances for the home and office continue to use power, even when the appliance is turned off. Appliances that are left on unintentionally waste even more power.

Overload Protection

The Embertec SmartSwitch™ AV_(M) is fitted with a safety device that removes power in the event of overloading. Should this occur, turn off and unplug all units, and press the reset button. Then plug into the wall socket again. Once reset, use any remote control to activate power to the Power Saver socket. Connect one device at a time. If any of the devices cause the safety device to trip again then get the offending device serviced. If the Embertec SmartSwitch™ AV_(M) fails to operate, please contact Embertec on 1300 033 367.

Care and Maintenance

To clean the outside of the Embertec SmartSwitch™ AV_(M) adaptor, first switch off and remove the adaptor from the power point. Then wipe the exterior with a soft cloth. Never use an abrasive cleaner, or water.

Disposal/Recycling

To protect the environment, the Embertec SmartSwitch AV_(M) should be recycled, or disposed of safely at the end of its life. Please return to a recycling centre for safe recycling or disposal. www.recyclingnearyou.com.au

Embertec SmartSwitch™ Specifications

October 2012

Physical	PC	AV and AV(M)
Dimensions:	130mm height, 75mm width, 70mm depth	
Weight:	380g	380g 60g SmartSensor
Colour:	White body, grey and green inserts	White body, black and green inserts
SmartSensor Cable Length:		3 metres
Environmental		
Temperature (operating):	0 °C to +70 °C	
Temperature (storage):	-20 °C to +85 °C	
Humidity (operating):	95% RH at +50 °C	
Protection		
Surge:	3 MOVs (A-E, N-E, A-N)	
Total Surge:	375 Joules / 13,500 Amps	
Maximum Current:	10A RMS via circuit breaker	
Electrical Durability		
Relay endurance:	Over 100,000 switching cycles	
Operating Voltage:	230 V AC +10% -6%	
Max Output Current:	10 Amps RMS	
Max total load:	2400 W	
Life Span:	> 20 years	
Maximum Power consumption	< 0.9W @ 230V 50Hz	< 1W @ 230V 50Hz
Control		
SmartSensor Infrared Interface (AV Series Only)		

Troubleshooting Guide

Problem	To Check
The Embertec SmartSwitch™ AV(M) is not receiving power.	<ul style="list-style-type: none">• Ensure the mains power supply switch is turned on at the wall or powerboard.
The Embertec SmartSwitch™ AV(M) is not powering down my equipment in standby mode.	<ul style="list-style-type: none">• Ensure the equipment is plugged into the Power Saver socket, not into the 'Always On' socket.• The Embertec SmartSwitch™ AV(M) has not detected the equipment is in standby. Please repeat this process by switching on the Audio Visual (AV) component again, waiting 10 seconds, and switching off again making sure all appliances are in standby mode.
The SmartSensor flashes frequently during normal operation.	<ul style="list-style-type: none">• This may be an indication of unwanted infrared activity in the area. Please check the immediate area for infrared devices that maybe interfering with the Embertec SmartSwitch™ AV(M) (such as compact fluorescent lights, computers, mobile phones, and other portable consumer electronic devices) and:• Move the SmartSensor to another location that is within line of sight and normal operation of your Audio Visual (AV) equipment remote controls.

Problem	To Check
<p>The LED on the main body of the Embertec SmartSwitch™ AV(M) is flashing, but my SmartSensor LED does not work (when plugged in and powered on).</p>	<ul style="list-style-type: none"> • Please check your SmartSensor connection to the Embertec SmartSwitch™ AV(M) by: <ul style="list-style-type: none"> - Ensuring the SmartSensor cable is safely and securely connected to the underside of the Embertec SmartSwitch™ AV(M), and; - Press the button on the top of the SmartSensor when plugged into the Embertec SmartSwitch™ AV(M) with the Embertec SmartSwitch™ AV(M) switched on. If the LED does not flash whenever you press the button, it may be evidence of a faulty SmartSensor or connection.
<p>The Embertec SmartSwitch™ AV has stopped working.</p>	<ul style="list-style-type: none"> • Unplug all the appliances connected into the Embertec SmartSwitch™ AV(M) adaptor and then unplug the adaptor from the wall socket. Then reconnect everything again.
<p>The TV keeps turning off after 1 hour.</p>	<ul style="list-style-type: none"> • The SmartSensor default setting for Active Powerdown is 60 minutes. • Please see “Changing SmartSensor setting for Active Powerdown” to change Active Powerdown to 1, 2 or 3 hours.

Embertec 12 Month Replacement Warranty

This Embertec SmartSwitch™ AV(M) is supplied by Embertec Pty Ltd. Embertec Pty Ltd is responsible for any warranty obligations as defined below.

In Australia, this Embertec SmartSwitch™ AV(M) Replacement Warranty does not limit or restrict any other rights or remedies that the purchaser may have under law including the guarantees under the Australian Consumer Law relating to the appliance.

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.

This Embertec SmartSwitch™ AV(M) Replacement Warranty is valid only in the country of purchase, but other statutory rights or remedies may still apply.

Embertec warrants the purchaser against defects in workmanship and material for a period of 12 months domestic use from the date of purchase or installation (or 3 months commercial use). The cost of returning the product is not covered by this warranty.

The Embertec Replacement Warranty does not apply to any defect, deterioration, loss, injury or damage occasioned by, or as a result of, misuse or abuse, negligent handling or if the product has been used other than in accordance with the instructions.

The Embertec Replacement Warranty excludes breakables such as glass and ceramic items, consumable items and normal wear and tear.

This Embertec SmartSwitch™ AV(M) Replacement Warranty is void if there is evidence of the product being tampered with by unauthorised persons.

If the product includes one or a number of accessories only the defective accessory or product will be replaced. Products may be replaced by refurbished goods of the same type.

Subject to your statutory rights, in the event of Embertec choosing to replace the product, the Embertec SmartSwitch™ AV(M) Replacement Warranty will expire at the original date, i.e. 12 months from the original date of purchase.

How to claim

In the event that you need some assistance with your Embertec SmartSwitch™ AV(M), please contact us on 1300 033 367 or email us at customerservice@embertec.com

Alternatively, visit us on the website at www.embertec.com or write to us at Warranty Claims, Embertec Pty Ltd, 182 Fullarton Road, Dulwich, SA 5065, Australia

**For further assistance please contact us on
customerservice@embertec.com**

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