

## HPM Portable Safety Switch

This portable Safety Switch, or residual current interrupter, has a plug on one end and a socket on the other. The plug plugs into a powerpoint allowing an electrical tool to be plugged into the other end of the 2m lead. It will constantly monitor the balance of the current flow in both the active and neutral wires of the tool and the lead on the line side of the Safety Switch. If an imbalance occurs, as it would if the tool became faulty and current leaked to earth (possibly through the body of the user), the portable Safety Switch would detect this imbalance and immediately cut off the power before a fatal amount could pass.

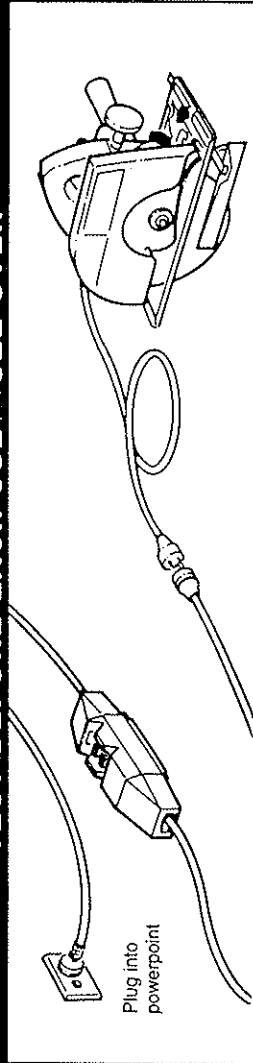
### SPECIFICATION Cat R5102

Voltage requirement:	230 - 240V ac.
Load:	10A, 2400W max.
Tripping sensitivity:	30mA.
Tripping time:	30ms @ RTC.
Lead length:	2 metres.
Lead gauge:	Heavy duty.
Plug and socket type:	Moulded, see-through.

## Portable Safety Switch's fast cut-out makes the risk of electrocution negligible.

This portable Safety Switch is ideal for use in indoor and outdoor locations. Its heavy duty construction makes it ideal for building sites or around the house, patio area, workshop, garage, garden or any place where an electrical tool or extension cord would normally be used.

### TEST BEFORE EACH USE - SEE OVER



#### Caution

- If the unit does not test properly and trips whenever the appliance is plugged in and switched on, an earth fault exists. The appliance needs to be repaired or replaced.
- DO NOT ATTEMPT TO USE THE TOOL WITHOUT THE SAFETY SWITCH AS A REAL SHOCK HAZARD MAY EXIST.
- If using in conjunction with an extension lead ensure that the Safety Switch plug is plugged into the powerpoint and the extension lead is plugged into the socket of the Safety Switch (not the other way around as the extension lead would not be protected). Avoid the possibility of nuisance tripping by ensuring that the extension lead is no longer than 40 metres.
- This device is to be used on normal household electrical distribution systems 230 - 240V ac 50Hz only.
- Safety Switches, whether HPM or any other, do not protect against electrical shock resulting from contact with both live and neutral wires of the electrical circuit.
- Do not use in a wet environment. Do not immerse in any liquid or expose directly to rain. If Safety Switch is dropped, test to ensure correct function.
- Test frequently and before each use to ensure correct operation.
- Electricity can be dangerous. The use of a Safety Switch is not a substitute for basic electrical safety precautions. The HPM Cat R5102 is designed as a protective device - do not use it as an off/on switch. Unplug equipment to achieve isolation before any inspection or repair of equipment is attempted.
- Opening voids warranty. Return to HPM for service.
- When using power supplied by a generator, Neutral and Earth must be connected at the generator for protection by this unit. Set no-load voltage 300V max and have a 100W lamp permanently on to absorb spikes when loading and unloading.

#### HPM WARRANTY

HPM Cat R5102 Portable Safety Switch is warranted as here and after appears, against faulty material and/or workmanship for a period of one year from date of purchase. The obligation of the manufacturer, under this warranty, is limited to servicing and replacing defective parts when the unit is returned to HPM Industries, or the distributors in your state, freight pre-paid. This warranty becomes void on any unit which has been tampered with or damaged by accident, short circuited, loaded beyond rating or damaged otherwise by improper operation. All other warranties, whether expressed or implied, and whether arising by operation of law or otherwise are hereby excluded.



## Protection against Electrocution.

This portable Safety Switch with 2m of safety lead is designed to be plugged into standard powerpoints. Electric tools and appliances are then plugged into the other end of the lead.

It is a heavy duty Safety Switch recommended for use with electric tools used on work sites and for general outdoor applications.

Use the Safety Switch with tools and appliances that you consider potentially dangerous, such as electric lawn mowers, whipper snippers, electric saws, high pressure washers, electric eels, and other appliances that are often used in wet conditions or where the leads may be damaged.

## How does it work?

This device constantly monitors the balance of the current flow in both active and neutral wires of the tool and lead that you are using.

If an imbalance occurs, as it would if current was to flow through the body to earth, the Safety Switch will immediately detect this dangerous fault and switch the power off before a fatal amount of current can pass through the body.

The response time between fault occurrence and cut-off time is less than thirty thousandths of a second, making the risk of a fatality negligible.

This Safety Switch switches itself off when power is turned off and must be reset when power is restored. This unique feature provides additional safety, particularly with saws, hedge trimmers, lawnmowers etc. which should not accidentally turn back on with power restoration.

## Testing

The Safety Switch should be tested before each use. Please read these testing instructions:-

	<b>TESTING INSTRUCTIONS</b>
<p><b>WARNING: TEST BEFORE EACH USE</b> If the unit fails to trip when the test button is pressed (red indicator fails to disappear), or fails to reset (red indicator fails to appear), the device is defective and should be returned to HPM for service.</p>	
	1. Plug into powerpoint and switch power on.
	2. Press and release "RESET". Verify red indicator is visible ("On").
	3. Switch powerpoint off. Verify red indicator disappears ("Off").
	4. Switch powerpoint on and reset. Verify red indicator is visible ("On").
	5. Press TEST button. Verify red indicator disappears ("Off").
	6. Press and release "RESET" button. Verify that the red indicator reappears through plastic window. (Red indicator denotes that output power is available).
	7. Power is now available to the appliance. Plug appliance in, check on and operate equipment normally.



Cat R5102  
**PORTABLE, SAFETY SWITCH**  
with 2m lead

## SPECIAL SAFETY FEATURE!

If either the active or neutral wire leading to this unit is disconnected or broken, the safety switch will not switch on, preventing a potentially dangerous situation.

**The tradesman's choice!**

Designed to withstand the rigours of building site conditions.

HPM Industries Pty Ltd., 4 Hill Street  
Darlinghurst, NSW, 2010.