

Technical

Replace conventional thermostat.

Tested by SABS Commercial (Pty) Ltd in terms of standard IEC 60950

Average operating voltage: AC220V / 50HZ
 Operating Voltage range: AC 160V to 250V
 Maximum current: 20 Ampere
 Earth leakage protection: 25mA. Action time $\leq 0.1s$
 Temperature display: 0 to 99° C
 Temperature setting range: 30 to 75° C
 Maximum temperature: 85° C
 Bi-polar relay: Isolate element in 'off' position

For safety reasons and to avoid any further damage, the unit will display an error code and shut down under the following conditions:

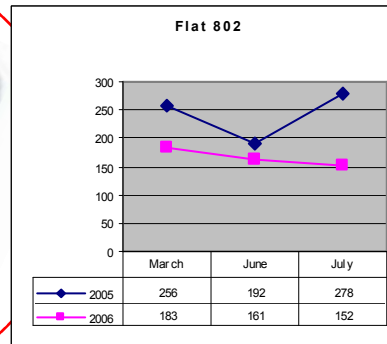
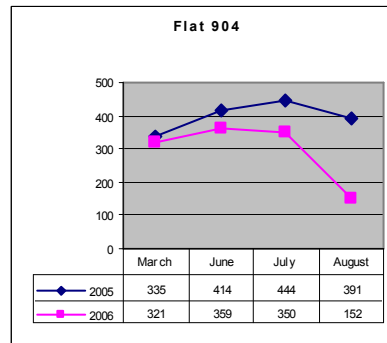
- Earth leakage
- Element failure
- Overheating (> 85° C)
- Scale build-up on element
- Hot water leakage
- Probe failure
- Other heat failures
- Dry heat detection — empty cylinder



The case study was done in Goodwood. The sample consisted of two blocks of flats with 180 flats each. The flats names are Libertas Mark and Edward Heights.

A total of 5,999 Kwh was saved over a period of 37 months. (Average of 159 Kwh per flat per month, saving the occupant between 20-50% on their electricity bill; depending on the condition of the components).

The graphs show the electricity consumption for 2005 compared to 2006 at two of the flats. After replacing the standard thermostats with the Geyserswise Electronic System, about 20% of the heating elements were immediately identified as being defective.



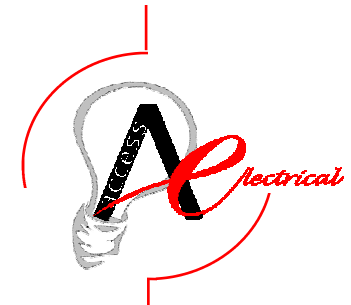
Save **30 to 50%**
on your electricity bill

Only **YOU** can take control of
your electricity bill



GEYSER WISE

Intelligent hot water control



Supports telephonic on / off compatibility. Ability to interface with ripple control systems.

Phone: 072 141 0641

Fax: 086 633 5920

E-mail: contact@access-electrical.co.za

www.access-electrical.co.za

We can assist!
Please call **072 141 0641**
or visit www.access-electrical.co.za

What is Geyserswise?

Geyserswise can save you up to 50% on your hot water bill, depending on the condition of the appliance, by replacing your conventional geyser thermostat and probe. It will enable you to regulate your electricity usage with four time settings per day, seven days a week, while concurrently detecting many problems often encountered with geysers.



The control is installed in your home; easy, accessible and straight-forward to operate.

Geyserswise's features include:

- Replaces conventional thermostat with a digital system
- Digital water temperature reading setting
- Control your geyser from your palm with controller
- Convenient to operate
- Microprocessor intelligent control
- Power off memory timer
- Earth leakage protection
- High temperature cut-out at 85° C
- Element failure detection
- Leaking hot water pipe detection
- Scale build-up detection
- Probe failure detection
- Load shifting capability to off-peak periods
- Can be integrated with home alarm system as zone (i.e. house alarm will alert you of errors)
- Real-time clock
- Four daily programmable time settings
- Battery backup on power failure

With the **SOUTH AFRICAN ENERGY SUPPLY CRISIS** on our doorstep, Eskom has launched its DSM (Demand Side Management) initiative and aims to influence the time, pattern and amount of electricity used by the consumer, i.e. commercial, industrial and the largest consumer-**residential!**

Higher tariffs- especially during peak hours- will force the home-owner to adapt and ensure the minimum electricity consumption, thereby also reducing the greenhouse effect.

Research has shown that hot water cylinders (geysers) contribute to between 40 and 60% of your overall electricity bill, when in **good condition**. Much money is wasted on old or damaged geysers or components that consume more and more electricity.

Example of a damaged element:



Example of scale build-up, blocking heat transfer to water:



The manufacturer of Geyserswise has 58 years of experience in the design of heating controls, ensuring the highest quality of the product. **Access Electrical** endeavours to contribute to the national responsibility of saving electricity and ensuring that as many families as possible have access to hot water.

Geyserswise is supported by Eskom's DSM.

ONLY YOU CAN CONTROL YOUR ELECTRICITY BILL!

Customer Survey

Please indicate if you would be interested in the following:

FREE 1 hour home energy survey and audit:

- Yes
 No

Assistance to identify and prioritize energy saving measures:

- Yes
 No

More information on Geyserswise:

- Yes
 No

More information on Solar

Heating:

- Yes
 No

Do you have a valid Certificate of Compliance in your possession?

- Yes
 No

Comments:

Name: _____

Address: _____

Phone: _____

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