

AIR-CONDITIONER SMART REMOTE PRO

save power, save money, save wear and tear

In today's challenging economic environment, we are continuously reviewing ways in which we can apply technology to work smarter and more efficiently to reduce costs to our Clients. Utilising the ability to control the variables in energy consumption is one way of achieving a more efficient and cost effective operation.

SMARTER AIR CONDITIONING

Standard remotes supplied with all split system air conditioners, allow a user to set the desired temperature of a room anywhere between 16 and 30 degrees. It is a commonly accepted standard that the natural 'comfort zone' for occupants is around a set point of 23 degrees. By limiting the set points of an air-conditioning unit to heat or cool to a more restricted range we can eliminate unwanted energy usage from a unit operating at inefficient set points outside the comfort zone.

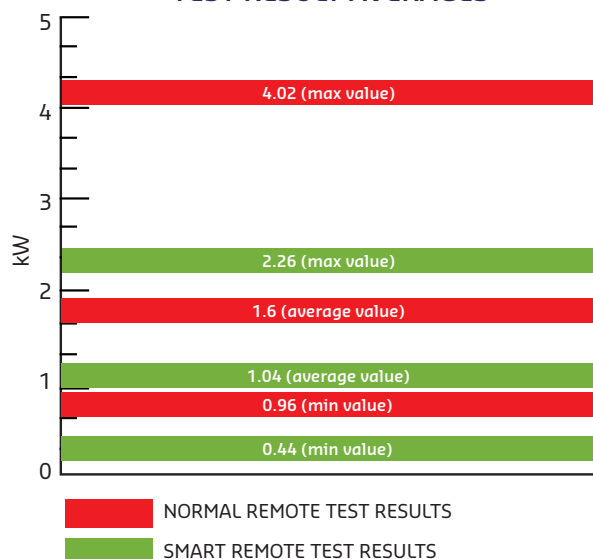


FIELD TESTING RESULTS

Clients have conducted infield trials of the Smart Remote Pro in an accommodation village in Western Australia that is equipped with a standard 3.5 kW split room air conditioner. Over 21 days, information was gathered from units operating with set points beyond the comfort zone along with units operating within the comfort zone. It was found that by limiting the set points with the Smart Remote Pro there was a 35% reduction in operating usage when compared to the units that were allowed to operate without setpoint control.

The Smart Remote Pro placebo function was enabled in rooms with limited range setpoints programmed into the Smart Remote Pro, allowing the user to think they were able to select a less efficient set point. There were no negative feedback or complaints related to comfort levels during this trial.

TEST RESULT AVERAGES



Single 3.5 kW Aircon Unit		
Normal Remotes	kW	\$
Average hourly consumption	1.60	\$0.27
Average daily consumption	38.32	\$6.51
Average yearly consumption	13986.80	\$2,377.76
Smart Remotes	kW	\$
Average hourly consumption	1.04	\$0.18
Average daily consumption	24.88	\$4.23
Average yearly consumption	9081.2	\$1,543.80
Comparison		
Reduction in power consumption and costs per unit (%)	35.00%	
Cost per remote	\$50.00	
Max ROI period per unit	< 30 Days	

* Assumed price per kW is \$0.17