



A1 - Series Controllers For Retro Fitting

PRESEVI
(An ISO 9001:2000 Certified Company)
Aircon Controllers

Presevi designs, develops and manufactures several controllers for aircon application. A1 – series retrofit controllers, designed using mixed signal processing technique, are ON / OFF controllers. These models are retrofitted to the existing window air conditioners by replacing the existing electro-mechanical panels. By adopting this conversion method, one could save considerable energy. A search through different models will help one to choose the right controller that meets the exact requirement. Presevi advice you to be in touch with us, if you face difficulties.

Basically, the electronic remote controller, when fitted to the existing machine, will help to manage **energy consumption** and operational cost, directly and indirectly. Direct saving of energy is obtained by the accurate electronic thermostat that prevents over/under cooling, while keeping a comfort condition. Indirect saving of energy is obtained by making use of the functions like timer, sleep and remote control etc. while sleeping (when one feels lazy to get up and switch off the air conditioner). We have several models to choose from and each differ in addition/deletion of certain features like remote facility, display, etc.

Product Highlights

- ❖ Cool / Fan / Dry modes
- ❖ Auto/ Low /Medium /High fan speeds
- ❖ Sleep function
- ❖ Sweep function
- ❖ Power down memory
- ❖ Cordless remote operation
- ❖ On / OFF / RTC timer
- ❖ 16 to 30°C temperature setting with digital display
- ❖ Zero initial time delay for compressor
- ❖ Pressure equalisation time delay

Functional Description

Cool mode–The room temperature will be maintained as per the set value in this modewhile the fan speed is selectable as Auto/ Low / Medium / High. In auto speed, the fan speed will change automatically according



to the room temperature. The thermostat has an accuracy better than $\pm 0.5^{\circ}\text{C}$ on the set value.

Dry mode – This mode could be used for de-humidifying the conditioned space. Fan speed will be low and cannot be changed. It will help the water vapor in the air, to condense, during the passage through the evaporator coil particularly when it rains, etc.

Fan mode–Fan alone will be working in this mode to facilitate airflow. The required speed can be selected by the user, as low /medium/ high.

Sleep Function–When this function is selected, the set temperature rises by 2°C over a period of two hours. This function saves lot of energy, if selected, while providing comfort

Sweep function– Controls the louver for uniform distribution of air in the conditioned area.

Timer–The controllers are provided with 15 hours OFF timer. The controllers provided with RTC have 24 hours ON/OFF timer and will retain the time even if the power supply is interrupted.

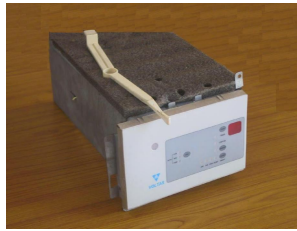
Safety time delay –The controllers are provided with an intelligent time delay designed and developed by PRESEVI. The compressor will start when switched ON for the first time and after a delay of 180 seconds for subsequent starts.

Remote control – The controllers are provided with remote control operation. Presevi has several remote handsets ranging from the blind version to the LCD to choose from.

Memory – These controllers, provided with power down memory, will retain all the previous settings after power interruption. The models with out RTC do not have memory for the timer.

Application

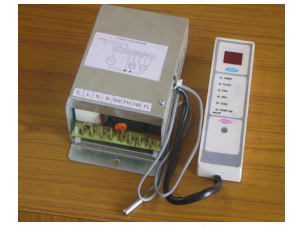
- ❖ Retrofitting of existing electro mechanical controllers.
- ❖ Home/Flats cooling
- ❖ Industry
- ❖ Office space



A1S306V-Series



A1G306OG-Series



A1S341V-Series



IR25

IR18

IR29

IR15

Selection chart

	Mode					Sweep	Motor Louver		Fan speed				Ionizer	Timer		Temp. Display	Temp. Setting		Chordless		
	Fan	Cool	Dry	Heat	Auto		Stepper	Synchronous	Low	Medium	High	Auto		Normal	RTC		Memory	Push Button	Potmetner	Blind	LCD
A1-S306V3	✓	✓	✓	*	*	✓	*	✓	✓	✓	✓	*	✓	*	✓	✓	✓	*	*	IR18	
A1-S306V4	✓	✓	✓	*	*	✓	*	✓	✓	✓	✓	*	*	✓	✓	✓	✓	*	*	IR29	
A1-S306V5	✓	✓	✓	*	*	✓	*	✓	✓	✓	✓	*	✓	*	✓	✓	✓	*	*	IR25	*
A1-S341V3	✓	✓	✓	*	*	✓	*	✓	✓	✓	✓	*	✓	*	✓	✓	✓	*	*	IR18	
A1-S341V4	✓	✓	✓	*	*	✓	*	✓	✓	✓	✓	*	*	✓	✓	✓	✓	*	*	IR29	
A1-S341V5	✓	✓	✓	*	*	✓	*	✓	✓	✓	✓	*	✓	*	✓	✓	✓	*	*	IR25	*
A1-S314L	✓	✓	✓	*	*	✓	*	✓	✓	✓	✓	*	✓	*	✓	✓	✓	*	*	IR15	*
A1-S309V5-A	✓	✓	*	*	*	✓	*	✓	*	✓	✓	*	✓	*	✓	✓	By remote	IR25	*		
A1-S309V5-B	✓	✓	*	*	*	✓	*	✓	*	✓	✓	*	✓	*	✓	By remote	IR25	*			

✓ - Provided * - Not provided

Electrical specifications

Input Voltage (V AC)			Frequency (Hz)			VA rating	Compressor relay rating (Amps)		Fan relay rating (Amps)
Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.	Steady state	In rush	Steady state
180	220	270	45	50	55	3.6	30	70	5

Electrical wiring diagram of the models can be given on request

Please contact PRESEVI for any special design / modification

LIT/Retro-01

The specifications, designs and information in this brochure are subject to change without notice

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