

**Presevi** designs, develops and manufactures several controllers for aircon application. The model **A5-G312** is a sophisticated cost effective controller designed for unmanned shelters. The controller developed to operate, a maximum number of six air conditioners are selectable from two to six units. These are cleared for EMI/EMC by testing as per IEC standards and are widely used by telecom/cellular operators and are field proven.

These controllers fitted in the RLUs would cycle the standby and working units in a round robin fashion, such that equal running time of all units are carried out. It would switch ON the standby unit, in the event the duty unit fails and would generate unit fail alarm. Using potential free contacts, the event could be communicated to the main exchange. The controller will also generate a primary alarm when all the air conditioners fail, as well as when the temperature of the site raises more than the safe limit. The controller is also provided with **test mode** to

### Product Highlights

- ❖ Control upto six air conditioners
- ❖ Load distributed uniformly in three phases and terminated unit wise.
- ❖ Unit Status Indication and fan fail detection
- ❖ Over load protection
- ❖ Various sensors to detect failure modes
- ❖ Room temperature display
- ❖ Unit fail and Primary alarm
- ❖ Network connectivity through Modem
- ❖ Unauthorized entry detection
- ❖ Duty cycling of air conditioners
- ❖ Potential free alarm outputs

### Product Selection Chart

Product number	no. of controlled units	Cycling time selection	Error Interlocks							Outputs			Display	Interface	
			Power Fail	Smoke/ Fire	Un authorized entry	Sensor Fail	Blower fail	Comp. OL	Fan	Compressor	Alarms (Potential free)			LED	PC/ Modem
											P. Alarm	Unit fail Alarm			
<b>A5-G312</b>	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>A5-G312PR</b>	6	✓	*	*	*	✓	*	*	✓	✓	✓	*	✓	*	*

✓ - Provided \* - Not provided

check the controller and the field wiring, before air condition units are installed. In addition, provision is given to monitor unauthorized entry, smoke / fire etc from the main exchange.

The controller will load/unload the air conditioners as per the set values assigned to each and will change its duty at predetermined intervals.

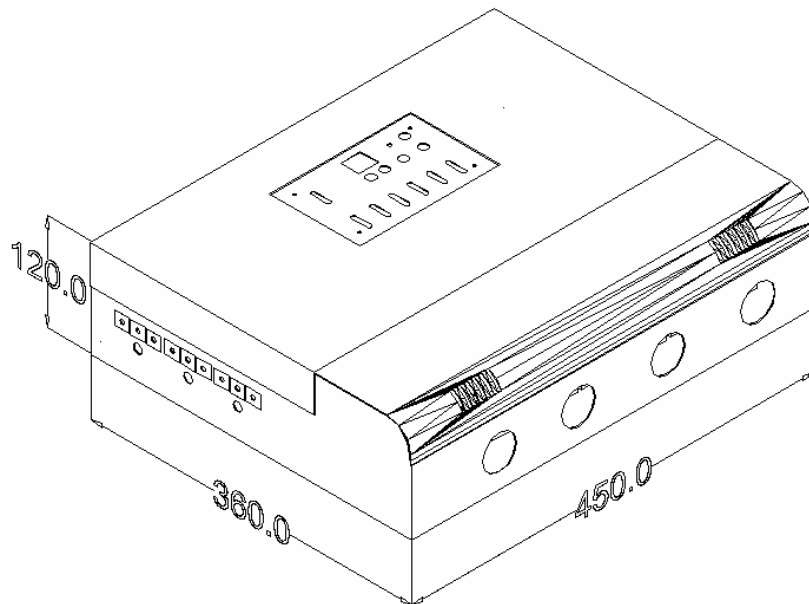
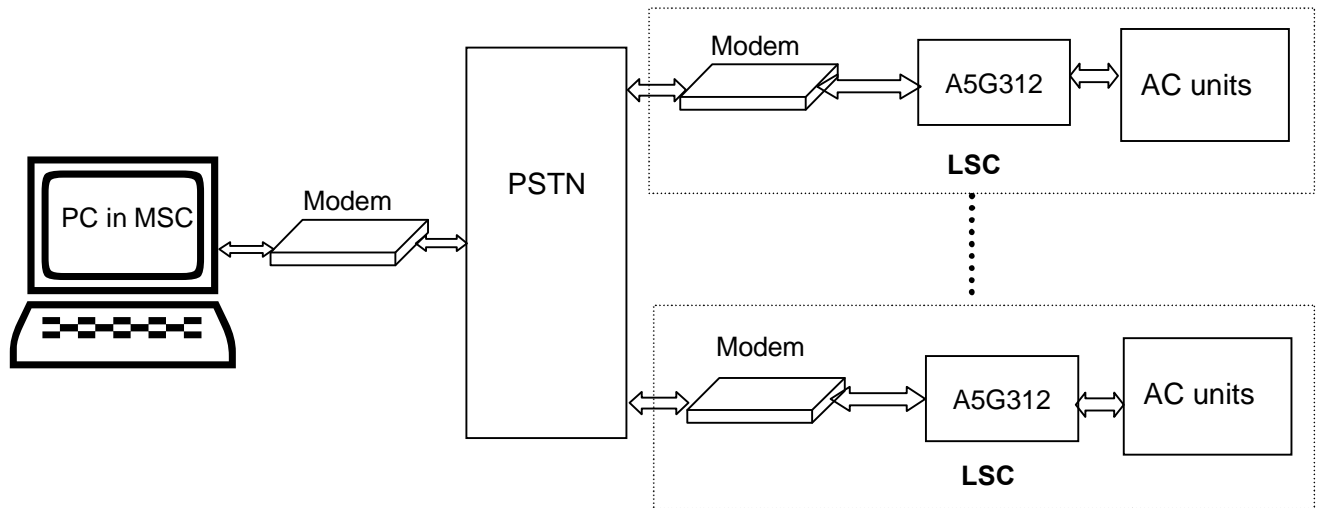
These controllers designed to save energy and operational cost of the sites, detect most of the failure mechanisms like gas leak, fan failure, overload, power failure etc. of the air conditioner.



This model is provided with PC / Modem connectivity, wired in a PSTN network and can monitor and control the site conditions from MSC/ Main exchange. A maximum of hundred such units, each identified with a number, could be connected to a remote PC located in the MSC/ Main exchange. The software PICMAS-2.0 developed by PRESEVI based on windows could be used to monitor and control these units. This flexibility in operation has several advantages in a practical situation and could be cost effective due to short payback period resulted by saving energy.

### Application

Telecom Exchanges (RLUs), Cellular Sites (LSCs), Computer server rooms, Unmanned cooling cabins



**Mechanical dimensions of A1-G312PR (L x B x H) - 271 x 306 x 101mm**

**Electrical wiring diagram will be given on request**

**Electrical specifications**

Input Voltage (V AC)			Frequency (Hz)			Power consumption (VA)	Compressor relay rating (Amps)		Fan relay rating (Amps)	Alarm relay rating (Amps)
Min.	Typ.	Max.	Min.	Typ.	Max.		Steady state	In rush	Steady state	Steady state
180	220	270	45	50	55	11	30	70	5	1

**Notes & Abbreviations**

LSC- Local Switching Centre  
 MSC – Main Switching Centre  
 PSTN – Public Switched Telephone Network

RLU – Rural telephone exchange  
 EMI – Electro Magnetic Interference  
 EMC – Electro Magnetic Compatibility

Please contact PRESEVI for any special design / modification

LIT/A5G312-01

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

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