



AC Sense ACS4100- i

C Systems AC SENSE ACS4100-i series of AC sequencer panel is a 16 bit microprocessor based sigma delta technology with integrated temperature sensor circuit.

The AC SENSE ACS4100i is equipped with programmable outputs to control and sequence the Air conditioner based on the sequence and condition programmed. During normal operation, the programmed AC(s) will ON & standby AC(s) will be OFF. On elapse of programmed timer, the active AC enters into standby mode while the other AC will become Active. The set point for room temperature can be programmed in the panel. The Pt100 RTD sensor measures the temperature of the room. If the room temperature exceeds the set point, the controller switches ON the standby AC to maintain the temperature of room below the set point. Once the room temperature reaches the set point, the controller continues to work as per the sequence. Up to 4 Outputs are provided in the panel. All combinations of active & standby AC(s) can be programmed to achieve (RTE) run time equalization of the AC(s). All the status of the AC(s) can be monitored through status relay outputs provided in the panel for hard ware integration with FAS / BMS. In addition, the panel accepts a fire trip input from FAS to trip the entire AC(s) in case of Fire alarm activation. Also, the panel has 12V DC Hooter & Fault output.

In addition to the above features, the panel has inbuilt communication port to integrate with BMS via Rs485 MODBUS protocol. All the parameters can be monitored via BMS through MODBUS RTU protocol. The communication medium is R 485 & cable shall be 2C x 1.5 Sq.mm.

Technical Specification:

Supply Voltage	:	230V AC (UPS Power)
Current	:	500 mA @12V
Display	:	4 Digit, 1/2 inch, 7 segment RED display
Sensor /Transmitter	:	Pt100 RTD stem Type with 5 m wire
Conversion Type	:	Sigma Delta
Resolution	:	18 BIT ADC
Filter	:	common mode filter
Sample & Hold	:	yes
Outputs	:	2,3,4 power relays (models are available)
Control Relay output	:	30A @ 230V
Status Relay output	:	All AC status, Hooter & Fault
Fire Trip	:	Volt free status from FAS via control relay module
Communication	:	MODBU RTU via RS 485
Dimension	:	300mm x 300mm x 120mm
Weight	:	3.5Kgs

AC SENSE



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