



DESCRIPTION

MiniSAC-60 is a full function mid-sized process controller. It is suited for those applications that are too large for the smaller MicroSACs, yet do not require the high point count and supervisory capabilities of the WS1616.

The MiniSAC has an onboard real time clock for critical control applications. The 8 input and 12 output point count make this panel ideal for the control of mid-sized heating and cooling components, such as chillers, boilers and packaged air-conditioning units.

MiniSAC-60 is applicable to any job that is served by its point count and configuration.

APPLICATIONS

- medium point density areas (up to 8 inputs, 8 digital outputs and 4 Universal outputs)
- packaged rooftop unit control
- fixed-function unitary control

FEATURES

HARDWARE

- 8 Universal inputs
- 8 digital Triac outputs & 4 Universal outputs
- switching power supply
- standard real time IC clock
- LED output status indicators
- watchdog timer
- 12 bit A/D converter
- communication LEDs
- SuperCAP battery backup

SOFTWARE

- menu-driven operator interface
- multilevel password security
- English language programming
- global system access
- fixed-function programs for:
 - night cycle and purge
 - peak demand limiting
 - scheduled & optimum start/stop
 - enthalpy control

MiniSAC-60

TECHNICAL SPECIFICATIONS

INPUTS

TYPE	USAGE	RANGES	DEVICES	DISPLAY
Universal	Voltage	0-1 VDC / 0-5 VDC / 0-10 VDC	standard devices	0 to 100%
	current	1-5 VDC / 2-10 VDC	standard devices	0 to 100%
		0-20 mA / 4-20 mA / 0-50 mA	current transducers	0 to 100%
	digital	1 mA to GND / 10 mA to GND	contact closures	user defined
	temperature	-10°C to 140°C (14°F to 284°F)	3k thermistor	temperature
	temperature	-40°C to 40°C (-40°F to 104°F)	1k thermistor	temperature
existing sensors	inputs can be adapted to operate with existing sensors			temperature, etc.

OUTPUTS

TYPE	USAGE	RANGES	CAPACITY	DISPLAY
Universal	Voltage	0-5 VDC / 0-10 VDC / 2-10 VDC	80 mA	0 to 100%
	current	4-20 mA	500 Ω	0 to 100%
		4-20 mA	250 Ω	0 to 100%
	digital	0-10 VDC*	80 mA	user defined
Triac digital	digital	Solid State relays for AC loads	30 VAC @ 1.2 A	user defined

* Fully modulating linear output

CPU & MEMORY

PROCESSOR			MEMORY		OTHER		
CPU	MHz	BITS	RAM	ROM	CLOCK	A/D RESOLUTION	BACKUP
Z80	10	8	32k	32k	Real time IC	12 bit	battery

COMMUNICATION PORTS

TYPE	QTY	USAGE	COMMUNICATION RATE
RS-232	1	modem/terminal	RS-232 port communicates at a fixed rate of 9600 bps
RS-485	1	SmartLAN	RS-485 port communicates at a fixed rate of 38,400 bps

ELECTRICAL / MECHANICAL

	XFORMER	VA RATING*	BOARD SIZE	TERMINAL CONNECTOR
MiniSAC-60	12 VAC or 24 VAC	22	200 X 200mm	RJ12

* loaded VA rating

25.4mm = 1.0 inches

ENVIRONMENTAL

OPERATING TEMPERATURE	STORAGE TEMPERATURE	RELATIVE HUMIDITY
0°C to 50°C (32°F to 122°F)	-35°C to 66°C (-31°F to 151°F)	0 to 95% RH, non-condensing