



DESCRIPTION

MicroSACs are adapted for terminal equipment controls, such as re-heat, radiation and unitary applications, yet they are fully programmable. As such, these devices can also be applied to low point density areas within any control strategy.

APPLICATIONS

- low point density areas (4 inputs and up to 12 outputs in various combinations)
- fixed-function unitary control

FEATURES

HARDWARE

- 4 Universal inputs (all models)
- 4 universal outputs (26)
- 4 digital Triac outputs (20)
- 4 digital Triac & 1 analog output (21)
- 2 analog outputs, 4 digital outputs or 8 digital outputs can be added to each
- isolated switching power supply
- watchdog timer
- FLASH memory (20)
- communication LEDs
- 8 bit A/D and DAC

SOFTWARE

- menu-driven operator interface
- multilevel password security
- English language programming
- global system access

MicroSAC-20/21/26
TECHNICAL SPECIFICATIONS

I/O POINT QUANTITIES

	MicroSAC-20	MicroSAC-21	MicroSAC-26
Inputs	4 Universal	4 Universal	4 Universal
Outputs	4 Triac digital	4 Triac/1 Analog	4 Universal

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
Analog	Voltage	0-5 VDC / 0-10 VDC / 2-10 VDC	20 mA & 50 mA	0 to 100%
	Current	4-20 mA	500 Ω	0 to 100%
		4-20 mA	250 Ω	0 to 100%
Triac Digital	Digital	24 VAC	30 VAC @ 1.2 A	user defined
Universal	Analog	voltage	0-5 VDC / 0-10 VDC / 2-10 VDC	100 mA
		current	4-20 mA	500 Ω
		current	4-20 mA	250 Ω
	Digital	voltage	12.5 VDC	100 mA

EXPANSION OPTIONS

COMPONENT	POINT TYPE	QTY	LIMITS
MicroAO2	analog outputs	2	A maximum of one expansion board (MicroAO2, MicroDO4, MicroDO8) may be added to a MicroSAC. A MicroSAC with a IOB-CLOCK can also be combined with 1 expansion board.
MicroDO4	Triac digital outputs	4	
MicroDO8	Triac digital outputs	8	
IOB-CLOCK	real time clock module	1	

CPU & MEMORY

PROCESSOR			MEMORY		OTHER		
CPU	MHz	BITS	RAM	ROM	CLOCK	A/D RESOLUTION	BACKUP
Z84C15	10	8	32k	128k	software	8 bit	FLASH

COMMUNICATION PORTS

TYPE	QTY	USAGE	9.6 kbps	38.4 kbps
RS-232	1	modem/terminal	✓	
RS-485	1	SmartLAN		✓

ELECTRICAL / MECHANICAL

TRANSFORMER	LOADED VA RATING	BOARD SIZE	TERMINAL CONNECTOR
24 VAC	6.8* or 22**	155 X 14mm	RJ45†

* 6.8 loaded VA rating for MicroSAC-20/21 **22 loaded VA rating for MicroSAC-26

† RJ45 (8-pin modular) includes connections for 3 input points and 1 low current status output

25.4mm = 1.0 inches