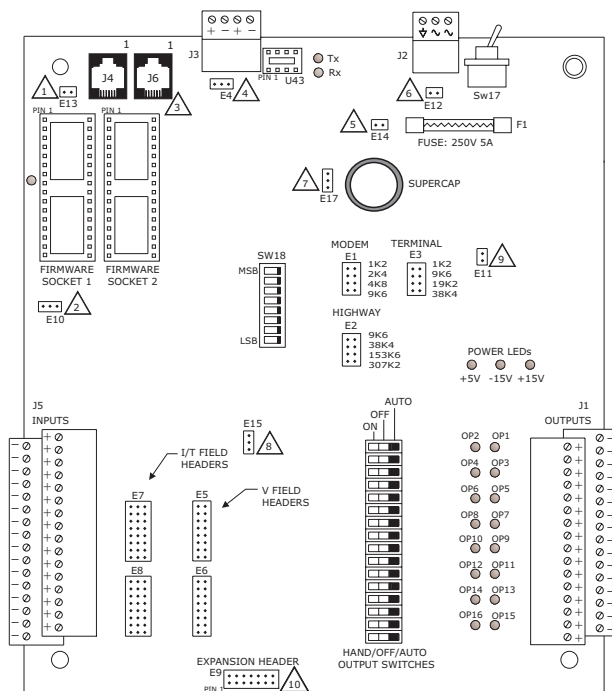




WALKER SYSTEMS

building intelligence



DESCRIPTION

WS1616 is a high speed modular controller ideal for the control of major mechanical and electrical equipment. This SAC can be used as a fully functional single-panel system, or integrated into a large system as a supervisory controller with complete programming and diagnostic capabilities.

WS1616 is expandable to a maximum of 72 input/output points; enough for most high point density areas or complete single panel systems.

Full remote monitoring and control is facilitated by automatic alarm dial-out and manual operator dial-in capabilities.

WS1616 (STAND ALONE CONTROLLER)

APPLICATIONS

- high point density areas (up to 72 input or output points in various combinations)
- mechanical/electrical equipment control
- fully functional single-panel systems remote monitoring & control applications

FEATURES

HARDWARE

- 16 Universal inputs
- 16 Universal outputs
- expandable to 72 I/O points
- isolated switching power supply
- standard onboard real time clock
- LED output status indicators
- hand/off/auto output switches
- Rx/Tx/diagnostic/power supply LEDs
- SuperCAP battery backup
- watchdog timer

SOFTWARE

- menu-driven operator interface
- multilevel password security
- English language programming
- global system access
- system-wide programming
- system-wide diagnostics
- fixed-function (canned) programs

WS1616 STAND ALONE CONTROLLER

TECHNICAL SPECIFICATIONS

INPUTS

QTY	TYPE	USAGE	RANGES	DEVICES	DISPLAY
16	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

QTY	TYPE	USAGE	RANGES	CAPACITY	DISPLAY
16	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

* Fully modulating linear output

CPU & MEMORY

PROCESSOR			MEMORY		OTHER		
CPU	MHz	BITS	RAM	ROM	CLOCK	A/D RESOLUTION	BACKUP
Z280	20	16	512k*	512k	Real time IC	12 bit	SuperCAP

* expandable to 512k for additional trending and labels

COMMUNICATIONS PORTS

TYPE	1.2 kbps	2.4 kbps	4.8 kbps	9.6 kbps	19.2 kbps	38.4 kbps
RS-232*	✓	✓	✓	✓		
RS-232**	✓			✓	✓	✓
RS-485***				✓		✓

* modem/printer port ** terminal port *** SmartLAN network port

ELECTRICAL / MECHANICAL

TRANSFORMER	VA RATING*	BOARD SIZE	RS-232 CONNECTORS
16 – 24 VAC	48	230mm x 200mm	RJ12

* loaded VA rating

EXPANSION OPTIONS

COMPONENT	POINT TYPE	QUANTITY	LIMITS
WSOP8	Universal output	8	a maximum of 40 additional points may be added in any combination of expansion components
WSOP16	Universal output	16	
WSIP8	Universal input	8	
WSIP16	Universal input	16	
WSD08	Triac digital output	8	

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