SEL SCHWEITZER ENGINEERING LABORATORIES, INC.

Legacy SEL-2431

Single-Phase Voltage Regulator Control, Two 120 Vac Voltage Inputs, Eight Contact Inputs (Two 120 Vac Programmable, Four 12 Vdc Self-Whetted Programmable, and Two Dedicated), Seven Contact Outputs (Four Programmable and Three Dedicated), Front Panel EIA-232 Port, Standard with AcSELERATOR QuickSet[®] SEL-5030 Software⁽¹⁾

Part Number:	2	4	3	1	0	Χ	1	1	Χ	1				X	X				
Firmware																			
Standard - Voltage Regulator Control with Forward/Reverse Operating Modes, Line																			
Drop Compensation, SELogic Programming, Metering, Event Reporting,					0														
SER, Load Profiling, Synchrophasors and Load Sense Technology																			
Power Supply																			
Standard - 120 Vac, 50/60 Hz							1												
Manual Raise/Lower Operators																			
Pushbutton Raise/Lower Operators ⁽²⁾											1								
Toggle Switch Raise/Lower Operators											2								
Communications Port (Port 1) ⁽³⁾																			
None												Х	Х						
EIA-232												1							
EIA-485 (4-wire)												2							
Fiber Optic, 200µm, Multimode, VPIN Style Connector ⁽⁴⁾												3							
Fiber Optic, 62.5µm, Multimode, ST Style Connector ⁽⁴⁾												4							
EIA-485 (2-wire)												5							
Communications Port (Port 2) ⁽³⁾																			
None													Х						
EIA-232*													1						
EIA-485 (4-wire)*													2						
Fiber Optic, 200µm, Multimode, VPIN Style Connector ⁽⁴⁾ *													3						
Fiber Optic, 62.5µm, Multimode, ST Style Connector ⁽⁴⁾ *													4						
EIA-485 (2-wire)*													5						
Conformal Coat																			
None																Х			
Conformal Coated Circuit Boards*																2			
Retrofit Kits ⁽⁸⁾																			
None																	Х	Х	
Siemens/Allis-Chalmers: 10-Position																			
Polarized Disconnect Switch (PDS) Interface ⁽⁵⁾ *																	1	0	

Howard Industries: 10-Position Connector								2	0		
Terminal Strip (CTS) Interface ⁽⁵⁾ *								~	U		
Cooper/McGraw-Edison: 18/10-Position								3	0		
Fanning Strip (Traditional) Interface ⁽⁵⁾ *								3	0		
Cooper: 20-Position Connector (Dead-								3	1		
Front) Interface ⁽⁵⁾ *								3			
GE: Fork-Terminal Connection (Traditional								4	0		
Interface to Cabinet NN Terminals) ⁽⁵⁾ *								4	0		
GE: 24-Position Connector (Power								4	1		
Disconnect Interface) ⁽⁵⁾ *								4	I		
Generic Fork Terminals for Siemens/Allis-											
Chalmers/Howard/GE (Does not Include								0	1		
Mounting Hardware) ⁽⁹⁾ *											
Generic Fork Terminals for											
Cooper/McGraw-Edison (Does not Include								0	2		
Mounting Hardware) ⁽⁹⁾ *											
Installed Accessories											
None										Х	Х
SEL-3022 Wireless Encrypting Transceiver										1	0
Accessory ⁽⁶⁾ *										1	0
SEL-2401 Satellite-Synchronized Clock										1	1
Accessory ⁽⁷⁾ *											1
SEL-3022 Wireless Encrypting Transceiver											
Accessory and SEL-2401 Satellite-										2	0

Synchronized Clock Accessory^{(6),(7)}*

Accessories

Retrofit Kits (Wiring Harness and Mounting Hardware)							
Siemens/Allis- Chalmers: 10- Position Polarized Disconnect Switch (PDS) Interface Kit ⁽⁵⁾ *	9253002						
Howard Industries: 10-Position Connector Terminal Strip (CTS) Interface Kit ⁽⁵⁾ *	9253003						
Cooper/McGraw- Edison; 18/10- Position Fanning Strip (Traditional Interface Kit) ⁽⁵⁾ *	9253004						
Cooper: 20-Position Connector (Dead- Front) Interface Kit ⁽⁵⁾ *	9253005						
GE: Fork-Terminal Connection (Traditional Interface to Cabinet NN Terminals) Kit ⁽⁵⁾ *	9253006						
GE: 24-Position Connector (Power Disconnect Interface) Kit ⁽⁵⁾ *	9253007						
Generic Fork Terminals for Siemens/Allis- Chalmers/Howard/GE (Does not Include Mounting Hardware) (?)*	9253001						

	Generic Fork	
	Terminals for Cooper/McGraw-	
	Edison (Does not	9 2 5 3 0 5 5
	Include Mounting	
	Hardware) ⁽⁹⁾ *	
Mounting Hardware		
inouring riar ariar of	Siemens/Allis-	
	Chalmers Mounting	9 2 5 3 0 5 9
	Hardware Kit*	
	Howard Mounting	9 2 5 3 0 6 0
	Hardware Kit*	9255060
	Cooper/McGraw-	
	Edison Mounting	9 2 5 3 0 5 8
	Hardware Kit*	
	GE Mounting Hardware Kit*	9 2 5 3 0 5 7
Other Accessories		
Other Accessories	SEL-3022 Wireless	
	Encrypting	
	Transceiver	9 2 5 3 0 5 0
	Accessory Kit ⁽⁶⁾ *	
	SEL-2401 Satellite-	
	Synchronized Clock	9 2 5 3 0 5 1
	Accessory Kit ⁽⁷⁾ *	
	Replacement Fuse	9 2 5 3 0 5 2
	Kit [*]	
	SEL-2431	
	Configurable Labels	9260034
Communications	Kit*	
Communications	FIA 000	
	EIA-232 Communications	9 2 5 3 0 4 0
	Card Kit*	9255040
	EIA-232	
	Communications	
	Card Kit with	9 2 5 3 0 4 0 C
	Conformal Coating*	
	EIA-485 (4-wire)	
	Communications	9 2 5 3 0 4 1
	Card Kit*	
	EIA-485 (4-wire) Communications	
	Card Kit with	9 2 5 3 0 4 1 C
	Conformal Coating*	
	Fiber-Optic, 200µm,	
	Multimode, VPIN	9 2 5 3 0 4 2
	Communications	
	Card Kit*	
	Fiber-Optic, 200µm,	
	Multimode, VPIN Communications	9 2 5 3 0 4 2 C
	Communications Card Kit with	7 2 3 3 0 4 2 0
	Conformal Coating*	
	Fiber-Optic, 62.5µm,	
	Multimode, ST	9 2 5 3 0 4 3
	Communications	7233043
	Card Kit*	
	Fiber-Optic, 62.5µm,	
	Multimode, ST Communications	9 2 5 3 0 4 3 C
	Communications Card Kit with	72330436
	Conformal Coating*	
	EIA-485 (2-wire)	
	Communications	9 2 5 3 0 4 4
	Card Kit*	

	EIA-485 (2-wire) Communications Card Kit with Conformal Coating*	9253044C
	EIA-485 DB9 to 4- Position Compression Terminal Block Adapter (2-wire 485)	C 6 7 7
	EIA-485 DB9 to 8- Position Compression Terminal Block Adapter (4-wire 485)	C 6 7 8
Literature		
	Printed Instruction Manual ⁽¹⁰⁾	PM2431-01

* Additional Cost

⁽¹⁾ Download acSELerator QuickSet SEL-5030 software for free at <u>https://www.selinc.com/softwaresolutions/</u>. acSELerator QuickSet on CD (503001WX4) is available upon request.

⁽²⁾ Membrane Raise/Lower Pushbuttons do not provide manual operation when control power is lost.

⁽³⁾ All Serial Communications Ports inlclude SEL-ASCII, SEL Compressed ASCII, Fast Meter, Fast Operate, and DNP3 Level 2 Slave protocols.

⁽⁴⁾ The optional VPIN style fiber-optic communication port is compatible with SEL-2800 and SEL-2810 Fiber-Optic Transceiver/Modems. The optional ST style fiber-optic communication port is compatible with the SEL-2812 Fiber-Optic Transceiver/Modem.

⁽⁵⁾ Includes mounting hardware (hinges and latch), and all necessary wiring harnesses (including PDS, CTS, Fanning Strip, or other applicable enclosure connector for mating with existing voltage regulator interfaces).

⁽⁶⁾ The SEL-3022 requires an EIA-232 port for communication.

⁽⁷⁾ The SEL-2401 requires an EIA-232 or EIA-485 (2-wire) card in Port 1 for IRIG-B.

- ⁽⁸⁾ The SEL-2431 supports the following Single Phase Voltage Regulators:
 - Siemens/Allis-Chalmers or Howard Type A with both a source and a load side PT.

- Siemens/Allis-Chalmers Type A Single Phase Voltage Regulator with only a source side PT.

- General Electric or Cooper/McGraw Edison Type A.

- Siemens/Allis-Chalmers, General Electric, Howard, or Cooper/McGraw Edison Type B.

⁽⁹⁾ Does not include mounting hardware (hinges and latch). Includes wiring harness only. If mounting hardware is required, select appropriate kit from Accessories.

(10) The SEL-2431 comes standard with a CD manual. One complimentary printed instruction manual is available upon request with each product purchased.

Making Electric Power Safer, More Reliable, and More Economical ®

SEL SCHWEITZER ENGINEERING LABORATORIES, INC.

2350 NE Hopkins Court - Pullman, WA 99163 USA Phone: +1.509.332.1890 - Fax: +1.509.332.7990