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:		4	3	1	0		1	1	X	1				X	X			
Firmware																		
Standard - Voltage Regulator Control with Forward/Reverse Operating Modes, Line Drop Compensation, SELogic Programming, Metering, Event Reporting, SER, Load Profiling, Synchrophasors, and Load Sense Technology					0													
USB Interface																		
None						0												
Type A USB Flash Drive Interface						1												
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)	Communications Port (Port 1)																	
None												Χ						
EIA-232 ⁽³⁾												1						
EIA-485 (4-wire) ⁽³⁾												2						
Fiber Optic, 200µm, Multimode, VPIN Style Connector ⁽³⁾⁽⁴⁾												3						
Fiber Optic, 62.5µm, Multimode, ST Style Connector ⁽³⁾⁽⁴⁾												4						
EIA-485 (2-wire) ⁽⁵⁾												5						
Communications Port (Port 2)																		
None (Future Serial Compatible)													Χ					
None (Future Ethernet Compatible)													0					
EIA-232 ⁽³⁾ *													1					
EIA-485 (4-wire) ⁽³⁾ *													2					
Fiber Optic, 200µm, Multimode, VPIN Style Connector ⁽³⁾⁽⁴⁾ *													3					
Fiber Optic, 62.5µm, Multimode, ST Style Connector ⁽³⁾⁽⁴⁾ *													4					
EIA-485 (2-wire) ⁽⁵⁾ *													5					
Two 100BASE-FX Multimode Fiber ⁽⁶⁾ *													6					
Two 10/100BASE-T Copper ⁽⁷⁾ *													7					
Convright © SEL 2012-2023					1 of 6											\/I_1C	050	

One 10/100BASE-T Copper ⁽⁷⁾ , One 100BASE-FX Multimode Fiber ⁽⁶⁾ *				8			
Two 100BASE-LX Single-Mode Fiber ⁽⁶⁾ *				9			
One 10/100BASE-T Copper ⁽⁷⁾ , One				Α			
100BASE-LX Single-Mode Fiber ⁽⁶⁾ *				7.			
Conformal Coat							
None					X		
Conformally Coated Circuit Boards*					2		
Retrofit Kits (Wiring Harness and	l Mountina I	Hardwai	ر8) دو)(8)				
None			<u> </u>			хх	
Siemens/Allis-Chalmers: 10-Position							
Polarized Disconnect Switch (PDS) Interface ⁽⁹⁾ *						1 0	
Howard Industries: 10-Position Connector						2 0	
Terminal Strip (CTS) Interface ⁽⁹⁾ *						2 0	
Cooper/McGraw-Edison: 18/10-Position						3 0	
Fanning Strip (Traditional) Interface ⁽⁹⁾ *						- 0	
Cooper: 20-Position Connector (Dead- Front) Interface ⁽⁹⁾ *						3 1	
Cooper: 20-Position Connector (Dead-						3 2	
Front) with Extended Harness						<u> </u>	
Interface ⁽⁹⁾ *							
GE: Fork-Terminal Connection (Traditional						4 0	
Interface to Cabinet NN Terminals) ⁽⁹⁾ *							
GE: 24-Position Connector (Power						4 1	
Disconnect Interface) ⁽⁹⁾ *							
Generic Fork Terminals for Siemens/Allis- Chalmers/Howard/GE (Does not Include						0 1	
Mounting Hardware) (10)*							
Generic Fork Terminals for						0 2	
Cooper/McGraw-Edison (Does not Include							
Mounting Hardware) ⁽¹⁰⁾ *							
Packaged Accessories							
None							XX
SEL-2401 Satellite-Synchronized Clock Accessory ⁽¹¹⁾ *							1 1
SEL-2431 Surge-Suppression Accessory*							1 2
Industrial Temperature-Rated USB Flash Drive, 2 GB*		1					3 0
Accessories Retrofit Kits (Wiring Harness and Mounting	Hardware						
Siemens/Allis-	i i iai uwai e)						
Chalmers: 10-							
Position Polarized	9 2 5 3 0 0	2					
Disconnect Switch	9 2 3 3 0 0						
(PDS) Interface							
Kit ⁽⁹⁾ *							
Howard Industries:							
10-Position Connector Terminal	925300	3					
Strip (CTS) Interface Kit ⁽⁹⁾ *		ال ا					

Cooper/McGraw- Edison; 18/10- Position Fanning Strip (Traditional	9253004
Interface Kit) ⁽⁹⁾ *	
Cooper: 20-Position Connector (Dead- Front) Interface Kit ⁽⁹⁾ *	9253005
Cooper Interface Kit for SEL-2431 (20- Position, Dead Front 10-inch Extended Harness Interface)*	
GE: Fork-Terminal Connection (Traditional Interface to Cabinet NN Terminals) Kit ⁽⁹⁾ *	9253006
GE: 24-Position Connector (Power Disconnect Interface Kit ⁽⁹⁾ *	9253007
Generic Fork Terminals for Siemens/Allis- Chalmers/Howard/G (Does not Include Mounting Hardware) (10)*	
Generic Fork Terminals for Cooper/McGraw- Edison (Does not Include Mounting Hardware) ⁽¹⁰⁾ *	9253055
Mounting Hardware Kits	
Siemens/Allis- Chalmers Mounting Hardware Kit*	9253059
Howard Mounting Hardware Kit* Cooper/McGraw-	9253060
Edison Mounting Hardware Kit*	9253058
GE Mounting Hardware Kit*	9253057
Other Accessories	
SEL-2401 Satellite- Synchronized Clock Accessory Kit ⁽¹¹⁾ *	9253051
Replacement Fuse Kit	9253052
SEL-2431 Configurable Labels Kit*	9260034
Industrial Temperature-Rated USB Flash Drive, 2 GB*	9253062

	SEL-2431 Surge-	
	Suppression	9 1 5 9 0 0 4 5 5
Camana di sali	Accessory	
Communications	ETA 222	
	EIA-232 Communications	9 2 5 3 0 4 0
	Card Kit ⁽³⁾ *	
	EIA-232	
	Communications	
	Card Kit with Conformal	9 2 5 3 0 4 0 C
	Coating ⁽³⁾ *	
	EIA-485 (4-wire)	
	Communications	9 2 5 3 0 4 1
	Card Kit ⁽³⁾ *	
	EIA-485 (4-wire)	
	Communications Card Kit with	9253041C
	Conformal	
	Coating ⁽³⁾ *	
	Fiber-Optic, 200µm,	
	Multimode, VPIN Communications	9 2 5 3 0 4 2
	Card Kit ⁽³⁾ *	
	Fiber-Optic, 200µm,	
	Multimode, VPIN	
	Communications	9 2 5 3 0 4 2 C
	Card Kit with Conformal	
	Coating ⁽³⁾ *	
	Fiber-Optic, 62.5µm,	
	Multimode, ST	9 2 5 3 0 4 3
	Communications Card Kit ⁽³⁾ *	
	Fiber-Optic, 62.5µm,	
	Multimode, ST	
	Communications	9 2 5 3 0 4 3 C
	Card Kit with	
	Conformal Coating ⁽³⁾ *	
	EIA-485 (2-wire)	
	Communications	9 2 5 3 0 4 4
	Card Kit ⁽⁵⁾ *	
	EIA-485 (2-wire)	
	Communications Card Kit with	9 2 5 3 0 4 4 C
	Conformal	
	Coating ⁽⁵⁾ *	
	Ethernet Card Kit	
	(Two 10/100BASE-T	9 2 5 3 0 6 3
	Copper ⁽⁷⁾)* Ethernet Card Kit	
	(Two 10/100BASE-T	
	Copper ⁽⁷⁾ , Conformal	9253063C
	Coat)*	
	Ethernet Card Kit	
	(One 10/100BASE-T Copper ⁽⁷⁾ , One	0252064
	100BASE-FX	9 2 5 3 0 6 4
	Multimode Fiber ⁽⁶⁾)*	

Ethernet Card Kit (One 10/100BASE-T Copper ⁽⁷⁾ , One 100BASE-FX	9253064C
Multimode Fiber ⁽⁶⁾ , Conformal Coat)*	
Ethernet Card Kit (One 10/100BASE-T Copper ⁽⁷⁾ , One 100BASE-LX Single- Mode Fiber ⁽⁶⁾)*	9253065
Ethernet Card Kit (One 10/100BASE-T Copper ⁽⁷⁾ , One 100BASE-LX Single- Mode Fiber ⁽⁶⁾ , Conformal Coat)*	9253065C
Ethernet Card Kit (Two 100BASE-FX Multimode ⁽⁶⁾)*	9253066
Ethernet Card Kit (Two 100BASE-FX Multimode ⁽⁶⁾ , Conformal Coat)*	9253066C
Ethernet Card Kit (Two 100BASE-LX Single-Mode Fiber ⁽⁶⁾)*	9253067
Ethernet Card Kit (Two 100BASE-LX Single-Mode Fiber ⁽⁶⁾ , Conformal Coat)*	9253067C
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 ⁽¹²⁾	PM2431-01

^{*} Additional Cost

- 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.

⁽¹⁾ Download acSELerator QuickSet SEL-5030 software for free at https://www.selinc.com/softwaresolutions/. 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⁾ Communication Port includes SEL-ASCII, SEL Compressed ASCII, Fast Meter, Fast Operate, PMU, 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⁾ Communication Port includes: DNP3 Level 2 Slave protocol.

⁽⁶⁾ Fiber Ethernet ports use LC connectors. 100BASE-FX is capable of up to 2 km distance. 100BASE-LX is capable of up to 10 km distance.

⁽⁷⁾ Copper Ethernet ports use RJ45 connectors and are capable of up to 100 m distance.

⁽⁸⁾ The SEL-2431 supports the following Single Phase Voltage Regulators:

- Siemens/Allis-Chalmers, General Electric, Howard, or Cooper/McGraw Edison Type B.
- ⁽⁹⁾ 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).
- (10) Does not include mounting hardware (hinges and latch). Includes wiring harness only. If mounting hardware is required, select appropriate kit from Accessories.
- (11) The SEL-2401 requires an EIA-232 or EIA-485 (4-wire) card in Port 1 for IRIG-B.
- $^{(12)}$ The SEL-2431 manual is available for download at selinc.com. One complimentary printed instruction manual is available upon request with each product purchased.

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

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