## SEL-651RA

Traditional Retrofit Recloser Control (14-pin) With Automatic Network Reconfiguration, Harmonic Analysis, Six Voltage Inputs, EZ Settings, Power Quality Monitoring, 8 Settings Groups, Template Storage, SEL Fast SER, DNP3 Level 2 Outstation, and 120/230 Vac or 125/250 Vdc Power Supply With Integral Battery Charger

Standard with AcSELERATOR QuickSet® SEL-5030 Software (1)

Part Number:	0	6 !	5 1	L	RA	0	1				A		A			
Firmware																
Standard						0										
Conformal Coat																
None								Χ								
Conformally Coated Circuit Boards*								1								
Secondary Input Voltage																
Single Phase Only (300 Vac Max Input)									1							
(6) 300 Vac Max Inputs*									Α							
(3) 8 Vac Max LEA Inputs <sup>(2)</sup> and (3) 300 Vac Max Inputs*									В							
(3) 8 Vac Max LEA Inputs and (3) 120 Vac, 1M Lindsey SVMI LEA Inputs <sup>(2)</sup> *									С							
(3) Kyle Nova LEA Inputs <sup>(2)</sup> and (3) 300 Vac Max Inputs*									D							
(3) Kyle Nova LEA Inputs and (3) 120 Vac, 1M Lindsey SVMI LEA Inputs <sup>(2)</sup> *									E							
(3) 300 Vac Max Inputs and (3) 120 Vac, 1M Lindsey SVMI LEA Inputs <sup>(2)</sup> *									F							
(6) 8 Vac Max LEA Inputs <sup>(2)</sup> *									G							
Secondary Input Current																
1 A Phase, 0.2 A Neutral									Δ	<b>\</b>						
1 A Phase, 0.2 A Neutral With High- Impedance Fault Detection*									G	ì						
Extra Inputs/Outputs																
None										X						
(2) 125 Vdc and (5) 12 Vdc Inputs/(8) Standard Outputs*										Α						
Communications Interface																
(1) 100BASE-FX, EIA-485*												)				
(2) 10/100BASE-T, EIA-485											[ F					
(2) 100BASE-FX, EIA-485*												=				
(1) 10/100BASE-T, (1) 100BASE-FX*												_				
Communications Protocol																
Standard												1				
Standard Plus IEC 61850*												2				

## **User Interface** 2 Configurable Labels<sup>(3)</sup> Configurable Labels<sup>(3)</sup> and Tri-Color LEDs\* 3 **Enclosure** Painted Aluminum 1 Painted Aluminum With Standard Outlet\* 2 3 Painted Aluminum With GFCI Outlet\* **Battery Option** None 12 V, 16 Ahr 1 2 12 V, 40 Ahr\* **Accessory Infrastructure** None Χ Accy Mtg Kit w/ 12 V Aux TB\* 1 Fuse Block for Field Wiring\* 2 Α 3 TB Wired to I/O(4)\* 100 W Heater\* 4 Accy Mtg Kit w/ 12 V Aux TB and Fuse Α Block for Field Wiring\* Fuse Block for Field Wiring and TB Wired to В $I/O^{(4)}*$ Accy Mtg Kit w/ 12 V Aux TB and 100 W Heater\* Fuse Block for Field Wiring and 100 W D Heater\* Accy Mtg Kit w/ 12 V Aux TB, Fuse Block Ε for Field Wiring and 100 W Heater\* Fuse Block for Field Wiring, TB Wired to I/O<sup>(4)</sup> and 100 W Heater\* LV Close and Secondary Input Voltage Connectors Χ None Low-Voltage Close Connector (2-Pin 1 Female)\* 8-Pin Connector for Voltage Inputs 2 (MS5015 Size 22)\* 8-Pin Connector for LEA Voltage Inputs 3 (MS26482 Size 12)(5)\* 4-Pin Connector for LEA Inputs (MS5015 4 Size 22)<sup>(6)</sup>\* Low-Voltage Close Connector (2-Pin Female) and 8-Pin Connector for Voltage Inputs (MS5015 Size 22)\* Low-Voltage Close Connector (2-Pin Female) and 8-Pin Connector for LEA Voltage Inputs (MS26482 Size 12)<sup>(5)</sup>\* Low-Voltage Close Connector (2-Pin Female) and 4-Pin Connector for LEA Inputs (MS5015 Size 22)(6)\*

8-Pin Connector for Voltage Inputs										В											D		
(MS5015 Size 22) and 8-Pin Connector for LEA Voltage Inputs (MS26482 Size 12) <sup>(5)</sup> *																							
8-Pin Connector for Voltage Inputs										D											Ε		
(MS5015 Size 22) and 4-Pin Connector for										U													
LEA Inputs (MS5015 Size 22) <sup>(6)</sup> *																							
Low-Voltage Close Connector (2-Pin										В											F		
Female), 8-Pin Connector for Voltage Inputs (MS5015 Size 22) and 8-Pin																							
Connector for LEA Voltage Inputs																							
(MS26482 Size 12) <sup>(5)</sup> *																							
Low-Voltage Close Connector (2-Pin Female), 8-Pin Connector for Voltage										D											G		
Inputs (MS5015 Size 22) and 4-Pin																							
Connector for LEA Inputs (MS5015 Size																							
22) <sup>(6)</sup> *																							
Accessories																							
None																						Χ	Χ
2-Pin Male Connector for Incoming Power																						1	0
(MS5015 Size 22)*																							U
3-Pin Male Connector for Incoming Power (MS5015 Size 22)*																						1	1
SEL-2925 Bluetooth Transceiver																						1	2
(29250120X)*	_																						
SEL-2401 Satellite Synchronized Clock (24010XXX0) <sup>(7)(11)</sup> *																						1	3
SEL-3031 Serial Radio (30310B013XX) <sup>(7)</sup> *																						1	5
	H																						
SEL-3061 Cellular Router (3061#J7P0) <sup>(7)</sup> (8)(9)*																						1	7
2-Pin Male Connector for Incoming Power (MS5015 Size 22) and SEL-2401 Satellite																						Α	0
Synchronized Clock (24010XXX0) <sup>(7)(11)</sup> *																							
2-Pin Male Connector for Incoming Power																						Α	2
(MS5015 Size 22) and SEL-3031 Serial																							
Radio (30310B013XX) <sup>(7)</sup> *																							
3-Pin Male Connector for Incoming Power																						Α	3
(MS5015 Size 22) and SEL-2401 Satellite Synchronized Clock (24010XXX0) <sup>(7)(11)</sup> *																							
3-Pin Male Connector for Incoming Power																						Α	5
(MS5015 Size 22) and SEL-3031 Serial																							J
Radio (30310B013XX) <sup>(7)</sup> *																							
SEL-2401 Satellite Synchronized Clock																						Α	7
(24010XXX0) and SEL-3031 Serial Radio (30310B013XX) <sup>(7)(11)</sup> *																							
2-Pin Male Connector for Incoming Power,																						Α	Q
SEL-2401 Satellite Synchronized Clock																						А	0
(24010XXX0) and SEL-3031 Serial Radio																							
(30310B013XX) <sup>(7)(11)</sup> *																							
<b>Bundled Accessories (Shipped in</b>	box	x w	/it	h S	EL.	-65	51I	RA	bu	ıtı	not	t ir	ıst	alle	ed	in	enc	los	ur	e)			
None																							X
	-																						
Security Sleeve																							1

Two Security Sleeves (2" Diameter)*										2
Three Security Sleeves (2" Diameter)*										3
Four Security Sleeves (2" Diameter)*										4
Five Security Sleeves (2" Diameter)*										5
Retrofit Mounting Adapter <sup>(10)</sup> *										Α
Retrofit Mounting Adapter <sup>(10)</sup> and Security Sleeve (2" diameter)*										В
Retrofit Mounting Adapter <sup>(10)</sup> and Two Security Sleeves (2" diameter)*										С
Retrofit Mounting Adapter <sup>(10)</sup> and Three Security Sleeves (2" diameter)*										D
Retrofit Mounting Adapter <sup>(10)</sup> and Four Security Sleeves (2" diameter)*										E
Retrofit Mounting Adapter <sup>(10)</sup> and Five Security Sleeves (2" diameter)*										F

## Accessories

Accessories	
Retrofit Mounting Adapter Kit <sup>(10)</sup> *	915900293
16 Ahr Replacement Battery Kit*	915900200
40 Ahr Replacement Battery Kit*	915900199
Security Sleeve (2" diameter)*	9250011
Accessory Mounting Kit w/ 12V Aux TB*	9250400
Fuse Block for Field Wiring*	9250401
TB wired to I/O <sup>(4)</sup> *	9250402
100 W Heater*	9250403
Low Voltage Close Connector (2-Pin Female)*	9250404
8-Pin Connector for Voltage Inputs (MS5015 Size 22)*	9250405
8-Pin Connector for LEA Voltage Inputs (MS26482 Size 12)*	9250406
4-Pin Connector for LEA Inputs (MS5015 Size 22)*	9250407
2-Pin Male Connector for Incoming Power (MS5015 Size 22)*	9250408
3-Pin Male Connector for Incoming Power (MS5015 Size 22)*	9250409
SEL-2401 Satellite Synchronized Clock (24010XXX0) Kit*	9250411
SEL-3061 Cellular Router mounting kit (SEL-3061, antennas, and exterior cabling sold separately).*	9250835
SEL-3061 Antenna Kit for Reclosers (2 235-0003 Antennas, 2 C982 20' RG-8X Cables, and 1 190-0106 Dual Antenna Mounting Bracket)*	915900526
Cable Assembly, Quick Disconnect to Battery Terminal*	C 5 4 6 9
14-Pin Control Cable (male to female)	C510
14-Pin Control Cable (overmolded, male to female)	C 5 2 0

14-Pin Control Cable (female to ring terminal)	C513
14-Pin Control Cable (male to ring terminal)	C 5 4 0
2-Pin Low-Voltage Close Cable (male to female)	C 5 1 5
2-Pin Incoming Power Cable (female to unterminated cut)	C 5 1 6
3-Pin Incoming Power Cable (female to unterminated cut)	C519
8-Pin Voltage Input Cable (MS5015, Size 22)	C517
8-Pin Voltage Incoming Cable (female to unterminated cut) (MS5015, Size 22)	C 5 2 2

<sup>\*</sup>Additional Cost

- (1) Download ACSELERATOR QuickSet SEL-5030 software for free at <a href="https://www.selinc.com/softwaresolutions/">https://www.selinc.com/softwaresolutions/</a>. QuickSet on CD (503001WX4) is available upon request.
- (2) Refer to Low Energy Analog (LEA) voltage inputs in the installation section of the SEL-651RA Instruction Manual for details.
- (3) A configuration kit (9260021) is provided (packaged in the shipping box).
- (4) Includes Accessory Mounting Kit with 12 V Aux wiring.
- (5) Only available with 8 Vac Max LEA Voltage Input options.
- (6) Only available with Kyle Nova LEA Voltage Input options.
- (7) Requires a Foundation Accessory that includes the Accessory Mounting Kit with 12 V Aux TB.
- (8) Requires at least one 10/100 BASE-T Ethernet Port.
- (9) The SEL-651RA cabinet solution including the pre-installed SEL-3061 is rated for -40° to +50°C. The SEL-3061 accessory includes two floor mounted N-type antenna surge arresters. It is pre-wired to Serial Port 3 and Ethernet Port 5A on the SEL-651RA. External antennas and cables must be ordered separately. Refer to the SEL-3061 web page for cable and antenna options.
- <sup>(10)</sup> For Legacy Single-Size Cooper/Kyle Enclosure (20.125 inches on center) and Legacy SEL-351R Enclosures (24.625 inches on center)
- $^{(11)}$  The SEL-2401 comes with the 915900045 Antenna Kit.

Note: The SEL-651RA 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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