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 R A 0 1 _ _ _ A _ A _ _ _ _ _ _ _ _

Firmware

Standard	0

Conformal Coat

None	X
Conformally Coated Circuit Boards*	1

Secondary Input Voltage

(1) 300 Vac Max Input (V1Y only)	1
(6) 300 Vac Max Inputs (Both VY and VZ)*	A
(3) 8 Vac Max LEA Inputs (VY)[2] and (3) 300 Vac Max Inputs (VZ)*	B
(3) 8 Vac Max LEA Inputs (VY) and (3) 120 Vac, 1M Lindsey SVMI LEA Inputs (VZ)[2]*	C
(3) Kyle Nova LEA Inputs (VY)[2] and (3) 300 Vac Max Inputs (VZ)*	D
(3) Kyle Nova LEA Inputs (VY) and (3) 120 Vac, 1M Lindsey SVMI LEA Inputs (VZ)[2]*	E
(3) 300 Vac Max Inputs (VY) and (3) 120 Vac, 1M Lindsey SVMI LEA Inputs (VZ)[2]*	F
(6) 8 Vac Max LEA Inputs (Both VY and VZ)[2]*	G

Secondary Input Current

1 A Phase, 0.2 A Neutral	A
1 A Phase, 0.2 A Neutral With High-Impedance Fault Detection*	G

Extra Inputs/Outputs

None	X
(2) 125 Vdc and (5) 12 Vdc Inputs/(8) Standard Outputs*	A

Communications Interface

(1) 100BASE-FX, EIA-485*	D
(2) 10/100BASE-T, EIA-485	E
(2) 100BASE-FX, EIA-485*	F
(1) 10/100BASE-T, (1) 100BASE-FX*	L

Communications Protocol

Standard	1
Standard Plus IEC 61850*	2

User Interface

Description		Code
Configurable Labels[3]		2
Configurable Labels[3] and Tri-Color LEDs*		3

Enclosure

Description		Code
Painted Aluminum		1
Painted Aluminum With Standard Outlet*		2
Painted Aluminum With GFCI Outlet*		3

Battery Option

Description		Code
None		X
12 V, 16 Ahr		1
12 V, 40 Ahr*		2

Accessory Infrastructure

Description	(middle)	Code
None		X
Accy Mtg Kit w/ 12 V Aux TB*		1
Fuse Block for Field Wiring*		2
TB Wired to I/O[4]*	A	3
100 W Heater*		4
Accy Mtg Kit w/ 12 V Aux TB and Fuse Block for Field Wiring*		A
Fuse Block for Field Wiring and TB Wired to I/O[4]*	A	B
Accy Mtg Kit w/ 12 V Aux TB and 100 W Heater*		C
Fuse Block for Field Wiring and 100 W Heater*		D
Accy Mtg Kit w/ 12 V Aux TB, Fuse Block for Field Wiring and 100 W Heater*		E
Fuse Block for Field Wiring, TB Wired to I/O[4] and 100 W Heater*	A	F

LV Close and Secondary Input Voltage Connectors

Description	(middle)	Code
None		X
Low-Voltage Close Connector (2-Pin Female)*		1
8-Pin Connector for Voltage Inputs (MS5015 Size 22)*		2
8-Pin Connector for LEA Voltage Inputs (MS26482 Size 12)[5]*		3
4-Pin Connector for LEA Inputs (MS5015 Size 22)[6]*		4
Low-Voltage Close Connector (2-Pin Female) and 8-Pin Connector for Voltage Inputs (MS5015 Size 22)*		A
Low-Voltage Close Connector (2-Pin Female) and 8-Pin Connector for LEA Voltage Inputs (MS26482 Size 12)[5]*		B
Low-Voltage Close Connector (2-Pin Female) and 4-Pin Connector for LEA Inputs (MS5015 Size 22)[6]*		C
8-Pin Connector for Voltage Inputs (MS5015 Size 22) and 8-Pin Connector for LEA Voltage Inputs (MS26482 Size 12)[5]*	B	D
8-Pin Connector for Voltage Inputs (MS5015 Size 22) and 4-Pin Connector for LEA Inputs (MS5015 Size 22)[6]*	D	E

Low-Voltage Close Connector (2-Pin Female), 8-Pin Connector for Voltage Inputs (MS5015 Size 22) and 8-Pin Connector for LEA Voltage Inputs (MS26482 Size 12)[5]*		B		F	
Low-Voltage Close Connector (2-Pin Female), 8-Pin Connector for Voltage Inputs (MS5015 Size 22) and 4-Pin Connector for LEA Inputs (MS5015 Size 22)[6]*		D		G	

Accessories

Description		
None	X	X
2-Pin Male Connector for Incoming Power (MS5015 Size 22)*	1	0
3-Pin Male Connector for Incoming Power (MS5015 Size 22)*	1	1
SEL-2401 Satellite Synchronized Clock (24010XXX0)[7][11]*	1	3
SEL-3031 Serial Radio (30310B013XX)[7]*	1	5
SEL-3061 Cellular Router (3061#J7P0)[7][8][9]*	1	7
2-Pin Male Connector for Incoming Power (MS5015 Size 22) and SEL-2401 Satellite Synchronized Clock (24010XXX0)[7][11]*	A	0
2-Pin Male Connector for Incoming Power (MS5015 Size 22) and SEL-3031 Serial Radio (30310B013XX)[7]*	A	2
3-Pin Male Connector for Incoming Power (MS5015 Size 22) and SEL-2401 Satellite Synchronized Clock (24010XXX0)[7][11]*	A	3
3-Pin Male Connector for Incoming Power (MS5015 Size 22) and SEL-3031 Serial Radio (30310B013XX)[7]*	A	5
SEL-2401 Satellite Synchronized Clock (24010XXX0) and SEL-3031 Serial Radio (30310B013XX)[7][11]*	A	7
2-Pin Male Connector for Incoming Power, SEL-2401 Satellite Synchronized Clock (24010XXX0) and SEL-3031 Serial Radio (30310B013XX)[7][11]*	A	8

Bundled Accessories (Shipped in box with SEL-651RA but not installed in enclosure)

Description	
None	X
Security Sleeve (2" Diameter)*	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[10]*	A
Retrofit Mounting Adapter[10] and Security Sleeve (2" diameter)*	B
Retrofit Mounting Adapter[10] and Two Security Sleeves (2" diameter)*	C
Retrofit Mounting Adapter[10] and Three Security Sleeves (2" diameter)*	D

Retrofit Mounting Adapter[10] and Four Security Sleeves (2" diameter)*																			E
Retrofit Mounting Adapter[10] and Five Security Sleeves (2" diameter)*																			F

Accessories

Retrofit Mounting Adapter Kit[10]*	9	1	5	9	0	0	2	9	3		
16 Ahr Replacement Battery Kit*	9	1	5	9	0	0	2	0	0		
40 Ahr Replacement Battery Kit*	9	1	5	9	0	0	1	9	9		
Security Sleeve (2" diameter)*	9	2	5	0	0	1	1				
Accessory Mounting Kit w/ 12V Aux TB*	9	2	5	0	4	0	0				
Fuse Block for Field Wiring*	9	2	5	0	4	0	1				
TB wired to I/O[4]*	9	2	5	0	4	0	2				
100 W Heater*	9	2	5	0	4	0	3				
Low Voltage Close Connector (2-Pin Female)*	9	2	5	0	4	0	4				
8-Pin Connector for Voltage Inputs (MS5015 Size 22)*	9	2	5	0	4	0	5				
8-Pin Connector for LEA Voltage Inputs (MS26482 Size 12)*	9	2	5	0	4	0	6				
4-Pin Connector for LEA Inputs (MS5015 Size 22)*	9	2	5	0	4	0	7				
2-Pin Male Connector for Incoming Power (MS5015 Size 22)*	9	2	5	0	4	0	8				
3-Pin Male Connector for Incoming Power (MS5015 Size 22)*	9	2	5	0	4	0	9				
SEL-2401 Satellite Synchronized Clock (24010XXX0) Kit*	9	2	5	0	4	1	1				
SEL-3061 Cellular Router mounting kit (SEL-3061, antennas, and exterior cabling sold separately).*	9	2	5	0	8	3	5				
SEL-3061 Antenna Kit for Reclosers (2 235-0003 Antennas, 2 C982 20' RG-8X Cables, and 1 190-0106 Dual Antenna Mounting Bracket)*	9	1	5	9	0	0	5	2	6		
14-Pin Control Cable (male to female)	C	5	1	0							
14-Pin Control Cable (overmolded, male to female)	C	5	2	0							
14-Pin Control Cable (female to ring terminal)	C	5	1	3							
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)	C	5	1	9							
8-Pin Voltage Input Cable (MS5015, Size 22)	C	5	1	7							
8-Pin Voltage Incoming Cable (female to unterminated cut) (MS5015, Size 22)	C	5	2	2							

*Additional Cost

[1] Download ACSELERATOR QuickSet SEL-5030 software for free at https://www.selinc.com/softwaresolutions/. 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.

[10] 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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