SEL-651R-2

Recloser Control With Automatic Network Reconfiguration, Harmonic Analysis, Single-Phase Trip Capability, 6 Voltage Inputs, Power Quality Monitoring, 8 Settings Groups, Template Storage, SEL Fast SER, and DNP3 Level 2 Outstation

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

Part Number:	0	6	5	1	R	2						A					
Firmware																	
Standard						2											
Control Cable Interface																	
Traditional Retrofit (14-Pin)							1										
G&W Viper [®] -ST, G&W Viper-LT, ABB Gridshield, or ABB Elastimold MVR (32-Pin)* ABB OVR-3/VR3S (15 and 27 kV							2										
only) (24-Pin)* G&W Control Power Viper-S or Control-Powered Eaton NOVA (19-Pin)*							4										
ABB Joslyn TriMod TM 600R (27- Pin)*							5										
Eaton NOVA-TS Triple-Single or NOVA-STS Single-Tank Triple- Single (26-Pin)*							6										
Siemens SDR Triple-Single (40- Pin)*							8										
Siemens SDR 3-Phase (40-Pin)*							9										
SEL Multi-Recloser Interface (42- Pin)*							Α										
Enclosure ⁽²⁾																	
Dual Door (Side Mount), Painted Steel With 3-Point Latches								Α									
Dual Door (Side Mount), Painted Type 304 Stainless Steel With 3- Point Latches*								В									
Single Door (Rear Mount), Painted Steel With 3-Point Latches								С									
Single Door (Rear Mount), Painted Type 304 Stainless Steel With 3-Point Latches*								D									
Conformal Coat																	
None									Х								
Conformally Coated Circuit Boards*									1								
Secondary Input Voltage (6) 300 Vac Max Inputs (Both VY and VZ)										A							
(3) 8 Vac Max LEA Inputs $(VY)^{(3)}$ and (3) 300 Vac Max Inputs (VZ)										В							

(3) 8 Vac Max LEA Inputs (VY) and (3) 120 Vac, 1M Lindsey SVMI LEA Inputs (VZ) ⁽³⁾				С										
(3) Eaton Nova LEA Inputs (VY)				D										
⁽³⁾ and (3) 300 Vac Max Inputs (VZ) ⁽⁴⁾														
(3) Eaton Nova LEA Inputs (VY)				E										
and (3) 120 Vac, 1M Lindsey														
SVMI LEA Inputs (VZ) ⁽³⁾⁽⁴⁾														
(3) 300 Vac Max Inputs (VY) and(3) 120 Vac, 1M Lindsey SVMI				F										
LEA $(VZ)^{(3)}$ Inputs														
(6) 8 Vac Max LEA Inputs (Both				G										
VY and VZ) ⁽³⁾														
(3) 300 Vac Max Inputs (VY) and				Н										
(3) Siemens SDR LEA Inputs (VZ) ⁽³⁾⁽⁵⁾														
(3) 120 Vac, 1M Lindsey SVMI				J										
LEA Inputs (VY) and (3) Siemens				J										
SDR LEA Inputs (VZ) ⁽³⁾⁽⁵⁾														
(6) Siemens SDR LEA Inputs				K										
(Both VY and VZ) ⁽³⁾⁽⁵⁾														
Secondary Input Current														
1 A Phase, 0.2 A Neutral					Α									
1 A Phase, 0.2 A Neutral With					G									
High-Impedance Fault Detection*]													
Extra Inputs/Outputs														
None ⁽⁶⁾						Х								
(7) 12 Vdc Inputs/(8) Standard Outputs*						8								
(2) 125 Vdc and (5) 12 Vdc Inputs/(8) Standard Outputs*						Α								
(2) 48 Vdc and (5) 12 Vdc						В								
Inputs/(8) Standard Outputs*						•								
(2) 220 Vdc and (5) 12 Vdc Inputs/(8) Standard Outputs*						С								
Communications Port														
3 EIA-232, USB							Α							
Communications Interface	2													
(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-								L						
FX*								L						
Communications Protocol														
Standard									1					
Standard Plus IEC 61850*									2					
Dower Cumply														
Power Supply 120 Vac (Includes GFCI Outlet)										1				
230 Vac										2				
48 Vdc										4	Х			
125 Vdc										3	Х			

Battery Option

None									Х			
12 V, 16 Ahr									1			
12 V, 40 Ahr*									2			

User Interface

Configurable Labels ⁽⁷⁾									2		
Configurable Labels ⁽⁷⁾ and Tri-									3		
Colored LEDs*											

Installed Accessories⁽⁸⁾

None				Х	X
Accessory Shelf*				1	0
Voltage Input Fuse Block (Secondary Voltages)*				1	1
Universal Fuse Block (Incoming Power)*				1	2
AC Transfer Switch ⁽⁹⁾ *				1	3
100 W Heater ⁽⁹⁾ *				1	4
SEL-2401 Satellite-Synchronized Clock (24010XXX0) on Accessory Shelf ⁽⁹⁾⁽¹⁸⁾ *				1	6
SEL-2725 Ethernet Switch(2725D33XX) on Accessory Shelf ⁽⁹⁾⁽¹⁰⁾ *				1	7
SEL-3031 Serial Radio Transceiver (30310W01XXX) on Accessory Shelf ⁽⁹⁾ *				1	8
Two SEL-2812MR Transceivers (2812MRX0)*				1	A
SEL-3061 Cellular Router (3061#M47Q) on Accessory Shelf ⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾ *				1	G
Security Package 1: SEL-3622 Security Gateway (3622XDE00XX1) on Accessory Shelf and Door Switch ⁽⁹⁾⁽¹⁰⁾⁽¹²⁾ (13)*				1	M
2-Position Socket Contact Receptacle for Low-Voltage Close/Heater (MS5015, Size 22) (19)*				2	0
8-Position Pin Contact Receptacle for Voltage Inputs (MS5015, Size 22)*				2	1
4-Position Pin Contact Receptacle for LEA Inputs (MS5015, Size 22) (14)*				2	2
3-Position Pin Contact Receptacle for Input Power (MS26482, Size 12)*				3	0
2-Position Socket Contact Receptacle for Low-Voltage Close/Heater (MS5015, Size 22) and 8-Position Pin Contact Receptacle for Voltage Inputs (MS5105, Size 22) ⁽⁹⁾⁽¹⁹⁾ *				A	0

Voltage Input Fuse Block (Secondary Voltages), Universal Fuse Block (Input Power), AC Transfer Switch, 2-Position Socket Contact Receptacle for Low-Voltage Close/Heater (MS5015, Size 22), and 8- Position Pin Contact Receptacle for Voltage Inputs (MS5015, Size 22) ⁽¹⁹⁾ *								1	A	1	
Accessory Shelf, Universal Fuse Block, and 2-Position Socket Contact Recepatacle for Low- Voltage Close/Heater (MS5015, Size 22) ⁽⁹⁾⁽¹⁹⁾ *									A	3	
100 W Heater and 2-Position Socket Contact Receptacle for Low-Voltage Close/Heater (MS5015, Size 22) ⁽⁹⁾⁽¹⁹⁾ *									Α		
SEL-2401 Satellite-Synchronized Clock (24010XXX0) on Accessory Shelf and 2-Position Socket Contact Receptacle for Low- Voltage Close/Heater (MS5015, Size 22) ⁽⁹⁾⁽¹⁸⁾⁽¹⁹⁾ *									A	5	
Accessory Shelf, Universal Fuse Block (Incoming Power), 100 W Heater, and 3-Position Pin Contact Receptacle for Input Power (MS5015, Size 22) ⁽⁹⁾ *			1						A	8	
Voltage Input Fuse Block (Secondary Voltages), Universal Fuse Block (Incoming Power), 100 W Heater, SEL-2401 Satellite-Synchronized Clock (24010XXX0) on Accessory Shelf, 2-Position Socket Contact Receptacle for Low-Voltage Close/Heater (MS5015, Size 22), and 8-Position Pin Contact Receptacle for Voltage Inputs (MS5015, Size 22) ⁽⁹⁾⁽¹⁸⁾⁽¹⁹⁾ *									A	9	
Voltage Input Fuse Block (Secondary Voltages), Universal Fuse Block (Input Power), AC Transfer Switch, 2-Position Socket Contact Receptacle for Low-Voltage Close/Heater (MS5015, Size 22), 8-Position Pin Contact Receptacle for Voltage Inputs (MS5015, Size 22), and Door Switch Wired to IN101 ⁽¹⁹⁾ *						8		1	A	Α	
Accessory Shelf and Door Switch Wired to $IN103^{(9)(12)*}$									A	Ν	
AC Transfer Switch and Two 3- Position Pin Contact Receptacles for Input Power (MS26482, Size 12)*								1	В	0	
AC Transfer Switch, Two 3- Position Pin Contact Receptacles for Input Power (MS26482, Size 12), and 8-Position Pin Contact Receptacle for Voltage Inputs (MS5015, Size 22)*								1	B	1	

Accessory Shelf, Universal Fuse Block (Input Power), and 3-										В	2	
Position Pin Contact Receptacle for Input Power (MS26482, Size 12)*												
Accessory Shelf, Universal Fuse										В	3	
Block (Input Power), 100 W Heater, and 3-Position Pin												
Contact Receptacle for Input												
Power (MS26482, Size 12) ⁽⁹⁾ *												
Accessory Shelf and 3-Position										В	4	
Pin Contact Receptacle for Input Power (MS26482, Size 12)*												
Accessory Shelf, Universal Fuse								1		В	6	
Block (Incoming Power), AC Transfer Switch, and two 3-												
Position Pin Contact Receptacles												
for Input Power (MS26482, Size 12)*												
Accessory Shelf, Voltage Input Fuse Block (Secondary Voltages),								1		В	7	
Universal Fuse Block (Incoming												
Power), AC Transfer Switch, 100 W Heater, and two 3-Position Pin												
Contact Receptacles for Input												
Power (MS26482, Size 12)*												
100 W Heater and 3-Position Pin Contact Receptacle for Input										В	9	
Power (MS26482, Size 12) ⁽⁹⁾ *												
AC Transfer Switch, SEL-2401								1		В	А	
Satellite-Synchronized Clock (24010XXX0) on Accessory Shelf,												
and two 3-Position Pin Contact												
Receptacles for Input Power												
(MS26482, Size 12) ⁽¹⁸⁾ * 8-Position Pin Contact Receptacle										-	-	
for Voltage Inputs (MS26482, Size 12)*			4							С	3	
AC Transfer Switch, 8-Position			4					1		С	4	
Pin Contact Receptacle for Voltage Inputs (MS26482, Size												
12), and 5-Position Pin Contact												
Receptacle for AC Input (MS5015, Size 22)*												
3-Position Pin Contact Receptacle			4							С	7	
for Input Power (MS26482, Size										•		
12) and 8-Position Pin Contact Receptacle for Voltage Inputs												
(MS26482, Size 12)*												
Accessory Shelf and Voltage Input Fuse Block (Secondary										D	2	
Voltages)*												
100 W Heater and SEL-2401										D	3	
Satellite-Synchronized Clock (24010XXX0) on Accessory												
Shelf ⁽⁹⁾⁽¹⁸⁾ *												
Accessory Shelf and 100 W Heater ⁽⁹⁾ *										D	4	
Voltage Input Fuse Block										D	5	
(Secondary Voltages), 100 W Heater, and SEL-2401 Satellite-												
Synchronized Clock (24010XXX0)												
on Accessory Shelf ⁽⁹⁾⁽¹⁸⁾ *												

Voltage Input Fuse Block														D	6		
(Secondary Voltages) and SEL- 2401 Satellite-Synchronized Clock (24010XXX0) on Accessory Shelf ⁽⁹⁾⁽¹⁸⁾ *																	
AC Transfer Switch and 100 W Heater*												1		D	8		
SEL-2401 Satellite-Synchronized														D	9		
Clock (24010XXX0) and SEL- 3031 Serial Radio Transceiver (30310W01XXX) on Accessory Shelf ⁽⁹⁾⁽¹⁸⁾ *															_		
SEL-2401 Satellite-Synchronized Clock (24010XXX0) on Accessory														D	Α		
Shelf and 3-Position Pin contact Receptacle for Input Power																	
(MS26482, Size 12) ⁽⁹⁾⁽¹⁸⁾ *																	
Accessory Shelf and AC Transfer Switch*												1		D	С		
Accessory Shelf, Voltage Input														D	Е		
Fuse Block (Secondary Voltages), Universal Fuse Block (Incoming																	
Power), and 100 W Heater ⁽⁹⁾ *																	
100 W Heater, 3-Position Pin												1		Е	0		
Contact Receptacle for Input															•		
Power (MS26482, Size 12) and FT-14 Test Switch ⁽¹⁵⁾ *																	
3-Position Pin Contact Receptacle	·													Г	т		
for Input Power (MS26482, Size														F	Т		
12) and FT-14 Test Switch																	
(FT4A14T08CN4286) ⁽¹⁶⁾ *																	
Voltage Input Fuse Block (Secondary Voltages), Universal Fuse Block (Incoming Power), 100 W Heater, and SEL-2401 Satellite-Synchronized Clock (24010XXX0) on Accessory Shelf ⁽⁹⁾⁽¹⁸⁾ *														G	5		
Accessory Shelf, 100 W Heater,														L	1		
and Door Switch Wired to IN104 ⁽⁹⁾⁽¹²⁾ *																	
SEL-FR12 Fault Receiver (FR12-0001) on Accessory Shelf (9)(17)*														L	3		
Accessory Shelf, 100 W Heater,					2							1		М	7		
AC Transfer Switch and 8- Position Pin Contact Receptacle for Input Power (MS5015 Size 22)*																	
Bundled Accessories (Ship	oped in	n box	wit	h SE	L-6!	51R	but	not	insta	allec	l in e	encl	osure				
None																Х	Х
Security Sleeve (2" Diameter)*																0	1
Two Security Sleeves (2" Diameter)*																0	2
Three Security Sleeves (2" Diameter)*																0	3
Four Security Sleeves (2" Diameter)*																0	4
Five Security Sleeves (2" Diameter)*																0	5

SEL-C553 40' Control Cable (32- Socket MS26482 to 32-Socket				2							Α	2
MS26482) and SEL-C533 40' Incoming Power Cable (3-Socket MS26482 to Ring Terminals)*												
Security Strap*											0	6
Security Strap and (1) Security Sleeve*											0	7
Security Strap and (2) Security Sleeves*											0	8
Security Strap and (3) Security Sleeves*											0	9
Security Strap and (4) Security Sleeves*											1	0

Accessories (Shipped Separately)

Security Sleeve (2" Diameter)*	9250011	
Security Strap for 42-Pin SEL Multi-Recloser Interface and 32- Pin Tavrida OSM Control Cables*	9250827	
Security Strap for 24-Pin ABB Control Cables*	9250828	
Security Strap for 40-Pin Siemens SDR Control Cables*	9250829	
Accessory Shelf (For Dual-Door Enclosure)*	9250550	
Accessory Shelf (For Single-Door Enclosure)*	9250567	
Voltage Input Fuse Block (For Dual-Door Enclosure)*	9250551	
Voltage Input Fuse Block (For Single-Door Enclosure)*	9250568	
Universal Fuse Block (For Dual- Door Enclosure)*	9 2 5 0 5 5 2	
Universal Fuse Block (For Single- Door Enclosure)*	9250569	
100 W Heater (For Dual-Door Enclosure)*	9 2 5 0 5 8 5	
100 W Heater (For Single-Door Enclosure)*	9250831	
120 Vac Transfer Switch (For Dual-Door Enclosure)*	9250553	
120 Vac Transfer Switch (For Single-Door Enclosure)*	9250570	
SEL-2401 Satellite-Synchronized Clock (For Dual-Door Enclosure) With Accessory Shelf*	9250593	
SEL-2401 Satellite-Synchronized Clock (For Single-Door Enclosure) With Accessory Shelf*	9250595	
2-Position Socket Contact Receptacle for Low-Voltage Close/Heater (MS5015, Size 22) for Dual-Door Cabinet*	9250554	
2-Position Socket Contact Receptacle for Low-Voltage Close/Heater (MS5015, Size 22) for Single-Door Cabinet*	9250571	
8-Position Pin Contact Receptacle for Voltage Inputs (MS5015, Size 22) for Dual-Door Cabinet*	9250555	
8-Position Pin Contact Receptacle for Voltage Inputs (MS5015, Size 22) for Single-Door Cabinet*	9 2 5 0 5 7 2	
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3-Position Pin Contact Receptacle for Input Power (MS26482, Size 12) for Dual-Door Cabinet*	9250556
3-Position Pin Contact Receptacle for Input Power (MS26482, Size 12) for Single-Door Cabinet*	9250580
4-Position Pin Contact Receptacle for LEA Inputs (MS5015, Size 22) for Single-Door Cabinet*	9250691
4-Position Pin Contact Receptacle for LEA Inputs (MS5015, Size 22) for Dual-Door Cabinet*	9250692
8-Position Pin Contact Receptacle for Voltage Inputs (MS26482, Size 12) for Dual-Door Cabinet*	9250557
8-Position Pin Contact Receptacle for Voltage Inputs (MS26482, Size 12) for Single-Door Cabinet*	9250581
16 Ahr Replacement Battery Kit*	915900200
40 Ahr Replacement Battery Kit*	915900199
SEL-3061 Dual Antenna Kit for Recloser Controls (2 Antennas, 2 20' RG-8X Cables, and 1 Dual Antenna Mounting Bracket)*	915900526
SEL-C510 Control Cable (14- Socket MS5015 to 14-Pin MS5015) for Recloser*	C 5 1 0
SEL-C520 Control Cable (14- Socket MS5015 to 14-Pin MS5015) with Overmolding for Recloser*	C 5 2 0
SEL-C524 Control Cable (32- Socket MS26482 to 32-Pin MS26482) for Recloser*	C 5 2 4
SEL-C553 Control Cable (32- Socket MS26482 to 32-Socket MS26482) for Recloser*	C 5 5 3
SEL-C550 Control Cable (42- Socket Rectangular to 32-Socket MS26482) for Recloser*	C 5 5 0
SEL-C551 Control Cable (42- Socket Rectangular to 32-Pin MS26482) for Recloser*	C 5 5 1
SEL-C552 Control Cable (42- Socket Rectangular to 32-Pin MS26482) for Control Cable Extension*	C 5 5 2
SEL-C515 Low-Voltage Close Cable (2-Pin MS5015 to 2-Socket MS5015) for Recloser*	C 5 1 5
SEL-C517 Voltage Input Cable (8-Socket MS5015 to 8-Pin MS5015) for Recloser*	C 5 1 7

* Additional Cost

⁽¹⁾ Download AcSELERATOR QuickSet SEL-5030 software for free at <u>https://www.selinc.com/softwaresolutions/</u>. QuickSet on CD (503001WX4) is available upon request. ⁽²⁾ The Dual Door (side mount) enclosure dimensions are 24.5" W x 30" H x 16.6" D (11,200 in³). The Single Door (rear mount) enclosure dimensions are 17" W x 32.5" H x 14" D (7,700 in³). The SEL-651R enclosure includes doorstop(s), document holder, and padlockable handle(s).

⁽³⁾ Refer to Low Energy Analog (LEA) voltage inputs in the installation section of the SEL-651R Instruction Manual for details.

⁽⁴⁾ Only Available with Control Cable Interface Options 1, 4, or 6.

⁽⁵⁾ Only Available with Control Cable Interface Options 8 or 9.

⁽⁶⁾ Not Available with Control Cable Interface Options 3 or A.

⁽⁷⁾ For model numbers specifying "Configurable Labels," a configuration kit (9260011 or 9260021) is provided (packaged in the shipping box).

⁽⁸⁾ Installed Accessories are mounted and wired inside the SEL-651R enclosure. The compatibility of selected accessory combinations must be verified using the SEL online product configurator (website).

⁽⁹⁾ Available on AC Input Powered units only.

⁽¹⁰⁾ Requires at least one 10/100BASE-T Ethernet Port.

 $^{(11)}$ The SEL-651R 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 both a Serial and an Ethernet port on the SEL-651R. External antennas and cables must be ordered separately. Refer to the SEL-3061 web page for cable and antenna options.

⁽¹²⁾ Not available with Extra I/O Option X.

⁽¹³⁾ Door switch is wired to SEL-3622 and SEL-651R IN104.

⁽¹⁴⁾ Only Available with Control Cable Interface Options 1 or 4.

⁽¹⁵⁾ Only Available with CCI Options 2 and A. Only Available with Enclosure Options C and D. Only Available with SIV Options A, B and G.

⁽¹⁶⁾ Only Available with CCI Options 2 and A. Only Available with Enclosure options C and D. Only Available with SIV options B and G.

⁽¹⁷⁾ The SEL-FR12 accessory includes a floor-mounted N-type antenna surge arrester. SEL-FT50 Fault Transmitters, an external antenna, and cable must be ordered separately. Refer to the SEL-FR12 web page for cable and antenna options.

⁽¹⁸⁾ The SEL-2401 comes with the 915900045 Antenna Kit.

⁽¹⁹⁾ Only Available with Control Cable Interface Options 1 or 6.

Note: The SEL-651R manual is available for download at selinc.com. One complimentary printed instruction manual is available upon request with each product purchased.

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