SEL-735 Power Quality and Revenue Meter With Color Touchscreen

Part Number: **0 7 3 5 L _ _ 0 _ _ _ _ _ X _ _ X X _ _ _ 0 _ _ X**

Enclosure Type

None	X
Easily Extractable Meter (EXM)*	E
NEMA 4 With FT-1 Test Switch(1)*	B 2
Portable Case(1)(2)*	C 9 4 4 E X X X 2

Power Quality and Recording Option

Field Upgrade Available

Basic PQ and Recording 128 MB, 16 channels of LDP, 1 kHz waveform, 270 VSSI summary events, and up to 15th-order harmonics	0
Intermediate PQ and Recording 256 MB, 192 channels of LDP, 8 kHz waveform, 270 VSSI summary events, flicker, and up to 63rd-order harmonics*	1
Advanced PQ and Recording 1 GB, 512 channels of LDP, 32 kHz waveform, 600 VSSI summary events, Waveview, power harmonics, and interharmonics*	2

Metering Form

Form 5 (Three-Wire Delta; 2 PTs, 2 CTs)	5
Form 9 (Four-Wire Wye; 3 PTs, 3 CTs)	9
Form 36 (Four-Wire Wye; 2 PTs, 3 CTs)	6

Slot A Power Supply Voltage

24-48 Vdc (range: 19-58 Vdc)	2
110-240 Vac 50/60 Hz and 110-250 Vdc	4

Slot A Control Input Voltage

o Includes 3 Contact Outputs, 2 Inputs

24 Vdc/Vac	1
48 Vdc/Vac	2
110 Vdc/Vac	3
125 Vdc/Vac	4
220 Vdc/Vac	5
250 Vdc/Vac	6

Slot B Ethernet (Port 1) | Rear Serial (Port 3)

o Includes Port 2 EIA-232 Standard

Single 10/100BASE-T | EIA-232	C
Single 10/100BASE-T | EIA-485	E
Single 100BASE-FX Multimode | EIA-232*	F

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Single 100BASE-FX Multimode | EIA-485*	G

Slot C Communications
Field Upgrade Available

Empty	X
Serial Communications o EIA-232 and EIA-485 Ports*	F
Telephone Modem*	G

Slot D I/O
Field Upgrade Available

Empty	X X
4 DI / 4 DO Solid-State (KYZ)*	A
4 DI / 4 DO Electromechanical*	B
4 AO (±1 mA) / 4 DO Solid-State (KYZ)*	C X
4 AO (±20 mA) / 4 DO Solid-State (KYZ)*	D X

Slot D Control Input Voltage
Field Upgrade Available

Empty	X
24 Vdc/Vac	1
48 Vdc/Vac	2
110 Vdc/Vac	3
125 Vdc/Vac	4
220 Vdc/Vac	5
250 Vdc/Vac	6

Slot Z Current and Voltage Inputs

CL2/10/20, Optimized for Low-End Accuracy	1
CL10/20, Optimized for 100 A Fault Recording	2

System Frequency

50 Hz	5
60 Hz	6

Communications Protocol
Field Upgrade Available

Standard SEL ASCII, SEL LMD, SEL Fast Meter, SEL Compressed ASCII, MV-90 Translation™, Modbus® RTU/TCP, Mirrored Bits® Communications, Telnet, DNP3 Level 2 Outstation and LAN/WAN(3), and Synchrophasors(3)	1
Standard Plus IEC 61850 With GOOSE and MMS(3)*	2
Standard Plus IEC 61850 With GOOSE and MMS(3) With Continuous Waveform Streaming*	3

Conformal Coat

No	1
Yes*	2

Software Bundle

None	X

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Meter Data Reporting Bundle o SEL-5705 Synchrowave Reports - Meter Data o SEL-5045 acSELerator Team Profile for billing and Team Events for waveform data (single or additional device license)*	C
Power Quality Reporting Bundle o SEL-5705 Synchrowave Reports - Power Quality o SEL-5703 Synchrowave Monitoring - Trending & Archiving (With Continuous Waveform Streaming Support) o SEL-5045 acSELerator TEAM Profile for billing and Team Events for waveform data (single or additional device license)*	D
Energy and Power Monitoring Bundle o SEL-5705 Synchrowave Reports - Power Quality o SEL-5703 Synchrowave Monitoring - Power Monitoring (With Continuous Waveform Streaming Support) o SEL-5045 acSELerator TEAM Profile for billing and Team Events for waveform data (single or additional device license)*	E

Accessories

SEL-735 Getting Started Kit (includes communication cables, electrical connectors, screwdriver, and more)*		915900431
SEL-9321 Low-Voltage DC Power Supply*		Please see Online MOT or contact SEL REP or CSR for ordering information.
SEL-2401 Satellite-Synchronized Clock		2401
Rear-Panel Connector Kit		
	Rear-Panel Connector Kit*	91590014
	90 Degree Connector Kit*	91590023
	Rear Connector Kit for SEL-735 (Barrier Style)*	91590053 2
Self-Shorting Current Connectors		
	Self-Shorting Current Connector, 20 feet (with 6 position male)*	91590026 4
	Self-Shorting Current Connector,8 feet (with 8 position male)*	91590048
FT Test Switch		
	FT-1 Test Switch*	240-1010
Communication Cables		
	6 kV Ethernet Surge Suppressor Kit*	91590051 8
	SEL-C287R Serial Cable (RS-232, DTE-DTE, DB9 M/DB9 F, Hardware Flow Control)	C287R
	SEL-C662 USB Cable for Computer Terminal (USB, DB9 M/USB A-Type M, Pin 1 Power)*	Please see Online MOT or contact SEL REP or CSR for ordering information.

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Dust Protection and Sealing Cover		
	Dust-Protection Assembly*	9 1 5 9 0 0 1 7 0
	7xx/24xx Vertical Dust Protection Assembly, Transparent Rear Cover*	9 1 5 9 0 0 4 5 2
	Front-Panel Sealing Cover Kit for SEL-734*	9 1 5 9 0 0 1 7 6
Configurable Labels		
	Configurable Label Kit for SEL-735 (LDM, 3 Sheets)*	9 2 6 0 1 4 3
Socket Adapters		
	Socket Adapter Form 5*	9 1 5 9 0 0 2 5 6
	Socket Adapter Form 9*	9 1 5 9 0 0 2 5 7
	Form 5 EXM Test-Socket Adapter*	9 1 5 9 0 0 2 5 8
	Form 9 EXM Test-Socket Adapter*	9 1 5 9 0 0 2 5 9
Rack Mount Brackets		
	Single Horizontal Meter Bracket*	9 1 5 9 0 0 0 0 7
	Two Horizontal Meter Bracket*	9 1 5 9 0 0 0 0 8
	Horizontal Meter and FT-1 Test Switch Bracket*	9 1 5 9 0 0 0 0 9
	Meter and Two FT-1 Test Switch Bracket*	9 1 5 9 0 0 0 3 5
	Single Vertical Meter Bracket*	9 1 5 9 0 0 0 5 0
	Two Vertical Meter Bracket*	9 1 5 9 0 0 0 5 1
	Three Vertical Meter Bracket*	9 1 5 9 0 0 2 4 3
	Vertical Meter and two FT-1 Test Switch Bracket*	9 1 5 9 0 0 1 5 8
	Rack Mount Kit, 7xx/24xx Vertical and 7xx/24xx Horizontal Retrofit*	9 1 5 9 0 0 1 4 1
	Rack Mount Kit, 7xx/24xx Vertical*	9 1 5 9 0 0 1 6 9
	19" Rack Mount Bezel for 7xx/24xx Vertical (centered)*	9 1 5 9 0 0 2 2 8
	Vertical Meter and FT-1 Test Switch Bracket*	9 1 5 9 0 0 0 5 2
Wall Mount Brackets		
	Low-Profile, Hinged, Contains 2 Ribbon Cables*	9 1 5 9 0 0 2 5 5
	Low-Profile, Hinged, Contains CT/PT Wiring and 1 Serial Cable*	9 1 5 9 0 0 3 1 7

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	Low-Profile, Hinged, Contains CT/PT Wiring and 2 Serial Cables*	9 1 5 9 0 0 3 1 8
	Low-Profile, Hinged, Contains CT/PT Wiring and 3 Serial Cables*	9 1 5 9 0 0 3 1 9
	Hinged Wall-Mount Bracket, Vertical*	9 1 5 9 0 0 1 3 6
	Vertical Hinged Wall-Mount Bracket for SEL-700 Series EXM and SEL-2400 Series EXM*	9 1 5 9 0 0 5 2 9
	Universal CT/PT Wiring Harness*	9 1 5 9 0 0 4 9 3
Retrofit Bezels		
	Single Vertical Meter Retrofit Bezel*	9 1 5 9 0 0 0 5 3
	Vertical Appearance Bezel *	9 1 5 9 0 0 0 5 8
	Vertical Retrofit (GE kV) Bezel*	9 1 5 9 0 0 0 6 8
	Vertical Retrofit (JEM 1 SB) Bezel*	9 1 5 9 0 0 0 6 9
	Vertical Retrofit (JEM 1 Panel Mount) Bezel*	9 1 5 9 0 0 0 7 0
	Vertical Retrofit (JEMStar SB/TransData MK-5 SB) Bezel*	9 1 5 9 0 0 0 7 2
	Vertical Retrofit (Nexus 1260/1270 SB) Bezel*	9 1 5 9 0 0 0 7 3
	Vertical Retrofit (PML ION 8000 SB) Bezel*	9 1 5 9 0 0 0 7 4
	Vertical Retrofit (Schlumberger Q1000 SB) Bezel*	9 1 5 9 0 0 0 7 5
	Vertical Retrofit (Siemens Q4 Tall SB) Bezel*	9 1 5 9 0 0 0 7 6
	Vertical Retrofit (Siemens Q4 Short SB) Bezel*	9 1 5 9 0 0 0 7 7
	Vertical Retrofit (Siemens Q4 Tall SB with FT-1 Test Switch Cutout)*	9 1 5 9 0 0 1 4 0
	Vertical Retrofit (Square-D Power Logic 2000)*	9 1 5 9 0 0 2 7 5
	Vertical Retrofit (GE 169/269/369 and Eaton FP5000)*	9 1 5 9 0 0 0 5 4
	Vertical Retrofit(GE 469)*	9 1 5 9 0 0 0 5 5
	Vertical Retrofit(Cutler-Hammer MP-3000)*	9 1 5 9 0 0 0 5 7
	Bezel, CO (FT-2) to 7XX Vertical*	9 1 5 9 0 0 0 7 8

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	Bezel, GE F650 to 7XX Vertical*	9159000079
	Bezel, GE 700 Series to 7XX Vertical*	9159000080
	Bezel, Basler 851/951 to 7XX Vertical*	9159000081
	ABB 500 Series to 7xx/24xx Vertical Retrofit*	9159000082
	Bezel, Siemens 7SJ61 (1/3 Rack Case) to 7XX Vertical*	9159000083
	Bezel, ABB 500 Series (1/2 Rack Case) to 7XX Vertical*	9159000086
	GE ML 269 Plus With Drawout Case Option to 7xx/24xx Vertical Retrofit*	9159000099
	ABB-FT 31/32 (CO FT-3) to 7xx/24xx Vertical Retrofit with 2 FT-1 Switch Cutouts*	9159001330
	GE MDP/S2 to 7xx/24xx Vertical Retrofit*	9159001332
	GE M1 to 7xx/24xx Vertical Retrofit*	9159001333
	GE M2 to 7xx/24xx Vertical Retrofit*	9159001334
	GE 565 to 7xx/24xx Vertical Retrofit*	9159001445
	ABB-FT 41/42 (CO FT-4) to 7xx/24xx Vertical Retrofit with 2 FT-1 Switch Cutouts*	9159001556
	ABB DPU to 7xx/24xx Vertical Retrofit*	9159001557
	GE S1 (IAC S1) to 2 FT-1 Switch Cutouts*	9159001559
	GE 269/369 to 7xx/24xx Vertical Retrofit with FT-1 Switch Cutout*	9159001665
	GE DGP to 7xx Vertical Retrofit*	9159003555
	EXM Retrofit Bezel, JEMStar SB/TransData MK-5 SB*	9159001996
	701/Simpro Retrofit Bezel*	9159001997
Indoor Enclosure Brackets		
	7xx Indoor Enclosure Mounting Bracket + FT-1 Cutout Test Switch, Vertical*	9159000065

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	7xx Indoor Enclosure Mounting Bracket, No FT-1 Cutout, Vertical*	9 1 5 9 0 0 0 9 1
Outdoor Enclosure Kits		
	7xx Outdoor Enclosure Kit + FT-1 cutout, Swing Door, Vertical*	9 1 5 9 0 0 0 6 6
	7xx Outdoor Enclosure, No FT-1 Cutout, Vertical*	9 1 5 9 0 0 0 9 3
Mounting Accessories		
	Mounting Gasket*	9 1 5 9 0 0 0 9 7
	Mounting Brackets for 16" x 18" x 8" Enclosure*	9 1 5 9 0 0 2 9 7
Current Transformers Clamp-On		
	Three 200:1 Clamp-On CTs, 0.6" Window, +-1% Accuracy*	9 1 5 9 0 0 2 0 9
	Three 1000:5 Clamp-On CTs, 2.0" Window, +-1% Accuracy*	9 1 5 9 0 0 2 1 0
Current Tranformers Split-Core		
	Three 1000:5 Split-Core CTs, 4.5" Window, +-3% Accuracy*	9 1 5 9 0 0 2 1 1
	Three 2000:5 Split-Core CTs, 6.0" Window, +-3% Accuracy*	9 1 5 9 0 0 2 1 2
	Three 3000:5 Split-Core CTs, 8.0" Window, +-3% Accuracy*	9 1 5 9 0 0 2 1 3
Projection Mounting Collar		
	Projection Mounting Collar, 45mm*	9 1 5 9 0 0 0 2 8
	Projection Mounting Collar, 90mm*	9 1 5 9 0 0 0 2 9
Blank Cover Plates		
	ABB-FT 21/22 (CO FT-2) Blank Cover Plate*	9 1 5 9 0 0 0 8 4
	GE S1 (IAC S1) Blank Cover Plate*	9 1 5 9 0 0 0 8 5
	GE M1 Blank Cover Plate*	9 1 5 9 0 0 1 4 2
	ABB-FT 31/32 (CO FT-3) Blank Cover Plate*	9 1 5 9 0 0 1 4 3
	ABB-FT 11 (CO FT-1) Blank Cover Plate*	9 1 5 9 0 0 1 4 4
	GE MDP/S2 Blank Cover Plate*	9 1 5 9 0 0 2 3 0
	241X / 7XX Blanker Plate*	9 1 5 9 0 0 3 8 7

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Literature		
	Printed Instruction Manual for SEL-735*	PM735-01

* Additional Cost

(1) Conformal coat is included free of charge with NEMA 4 enclosure and portable case options.
(2) Portable Case includes voltage clips. Order an optional current transformer kit for current sensing.
(3) Requires Ethernet.

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

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