

SEL-735

Power Quality and Revenue Meter

Part Number:

0 7 3 5 0 X X X X

Chassis

Horizontal Panel Mount, ANSI Optical Port	H
Horizontal Panel Mount, EIA-232 Port	A
Vertical Panel Mount, ANSI Optical Port	V
Vertical Panel Mount, EIA-232 Port	B
Easily Extractable Meter (EXM), Vertical Panel Mount, ANSI Optical Port*	E
Easily Extractable Meter (EXM), Vertical Panel Mount, EIA-232 Port*	F X

Enclosure

None	X
NEMA 4 With FT-1 Test Switch ^{(1)*}	B 2
Front Panel Sealing Cover*	F

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 1GB, 512 channels of LDP, 32 kHz waveform, 600 VSSI summary events, Waveview, power harmonics, and interharmonics*	2

Meter Form

Field Upgrade Available

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

12-24 Vdc	1
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

12 Vdc	0
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

None EIA-232						B			
Single 10/100BASE-T EIA-232*						C			
None EIA-485*						D			
Single 10/100BASE-T EIA-485*						E			
Single 100BASE-FX Multimode EIA-232*						F			
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		
12 Vdc							0		
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(2), and Synchrophasors(2)	1
Standard Plus IEC 61850 With GOOSE and MMS(2)*	2

Front-Panel Labeling

ANSI	0
IEC	1
AUS NMI	2

Conformal Coat

No	1
Yes(1)*	2

Software Bundle

None	X
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-5045 acSElerator TEAM Profile for billing and Team Events for waveform data (single or additional device license)*	2 D

Accessories [Link to SEL-735 Metering Accessories Flyer \(Opens in new window\)](#)

SEL-735 Getting Started Kit (includes communication cables, electrical connectors, screwdriver, and more)*	9 1 5 9 0 0 4 3 1
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	2 4 0 1
SEL-2924 Portable BLUETOOTH® Serial Adapter*	Please see Online MOT or contact SEL REP or CSR for ordering information.
SEL-2925 BLUETOOTH® Serial Adapter*	Please see Online MOT or contact SEL REP or CSR for ordering information.
Rear-Panel Connector Kit	
Rear-Panel Connector Kit*	9 1 5 9 0 0 0 1 4
Rear-Panel 90 Degree Connector Kit*	9 1 5 9 0 0 2 2 3
Rear Connector Kit for SEL-735 (Barrier Style)*	9 1 5 9 0 0 5 3 2
Self-Shorting Current Connectors	
Self-Shorting Current Connector, 20 feet (with 6 position male)*	9 1 5 9 0 0 2 6 4

	Self-Shorting Current Connector,8 feet (with 8 position male)*	9 1 5 9 0 0 0 4 8
FT Test Switch		
	FT-1 Test Switch*	2 4 0 - 1 0 1 0
Communication Cables		
	6 kV Ethernet Surge Suppressor Kit*	9 1 5 9 0 0 5 1 8
	SEL-C287R EIA-232 Serial Communications Cable	C 2 8 7 R
	SEL-C662 EIA-232 to USB Communications Cable*	Please see Online MOT or contact SEL REP or CSR for ordering information.
Dust Protection and Sealing Cover		
	7xx/24xx Vertical 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
	Vertical and EXM Front Panel Sealing Cover Kit*	9 1 5 9 0 0 1 7 6
Configurable Labels		
	Configurable Label Kit (V&H)-3 label sheets*	9 2 6 0 0 7 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 7xx/24xx Rack Mount Bracket*	9 1 5 9 0 0 2 4 3
	7xx/24xxVertical and 2 FT-1 Switch Cutouts*	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
	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
	7xx Horizontal Hinged Wall-Mount Bracket*	9 1 5 9 0 0 0 6 3
	7xx/24xx Horizontal Surface-Mount Kit*	9 1 5 9 0 0 1 1 6
	Vertical Hinged Wall-Mount Bracket*	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
	7xx Wall-Mount Bracket*	9 1 5 9 0 0 0 4 7
	Universal CT/PT Wiring Harness*	9 1 5 9 0 0 4 9 3
Retrofit Bezels		
	Horizontal Meter and FT-1 Test Switch (Short SB) Retrofit Bezel*	9 1 5 9 0 0 0 0 5
	Single Horizontal Meter (Short SB) Retrofit Bezel*	9 1 5 9 0 0 0 0 6
	Horizontal Meter and FT-1 Test Switch (Tall SB) Retrofit Bezel*	9 1 5 9 0 0 0 2 3
	Single Horizontal Meter (Tall SB) Retrofit Bezel*	9 1 5 9 0 0 0 2 4
	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
Bezel, GE F650 to 7XX Vertical*	9 1 5 9 0 0 0 7 9
Bezel, GE 700 Series to 7XX Vertical*	9 1 5 9 0 0 0 8 0
Bezel, Basler 851/951 to 7XX Vertical*	9 1 5 9 0 0 0 8 1
ABB 500 Series to 7xx/24xx Vertical Retrofit*	9 1 5 9 0 0 0 8 2
Bezel, Siemens 7SJ61 (1/3 Rack Case) to 7XX Vertical*	9 1 5 9 0 0 0 8 3
Bezel, ABB 500 Series (1/2 Rack Case) to 7XX Vertical*	9 1 5 9 0 0 0 8 6
GE ML 269 Plus With Drawout Case Option to 7xx/24xx Vertical Retrofit*	9 1 5 9 0 0 0 9 9

	ABB-FT 31/32 (CO FT-3) to 7xx/24xx Vertical Retrofit with 2 FT-1 Switch Cutouts*	9 1 5 9 0 0 1 3 0
	GE MDP/S2 to 7xx/24xx Vertical Retrofit*	9 1 5 9 0 0 1 3 2
	GE M1 to 7xx/24xx Vertical Retrofit*	9 1 5 9 0 0 1 3 3
	GE M2 to 7xx/24xx Vertical Retrofit*	9 1 5 9 0 0 1 3 4
	GE 565 to 7xx/24xx Vertical Retrofit*	9 1 5 9 0 0 1 4 5
	ABB-FT 41/42 (CO FT-4) to 7xx/24xx Vertical Retrofit with 2 FT-1 Switch Cutouts*	9 1 5 9 0 0 1 5 6
	ABB DPU to 7xx/24xx Vertical Retrofit*	9 1 5 9 0 0 1 5 7
	GE S1 (IAC S1) to 2 FT-1 Switch Cutouts*	9 1 5 9 0 0 1 5 9
	GE 269/369 to 7xx/24xx Vertical Retrofit with FT-1 Switch Cutout*	9 1 5 9 0 0 1 6 5
	PML 37xx to 7xx Horizontal Retrofit*	9 1 5 9 0 0 1 9 8
	GE DGP to 7xx Vertical Retrofit*	9 1 5 9 0 0 3 5 5
	EXM Retrofit Bezel, JEMStar SB/TransData MK-5 SB*	9 1 5 9 0 0 1 9 6
	701/Simpro Retrofit Bezel*	9 1 5 9 0 0 1 9 7
Indoor Enclosure Brackets		
	Indoor Enclosure Mounting Bracket for SEL-700 Series (FT-1 Test Switch Cutout, Horizontal)*	9 1 5 9 0 0 0 4 6
	7xx Indoor Enclosure Mounting Bracket, No FT-1 Cutout, Horizontal*	9 1 5 9 0 0 0 9 0
	7xx Indoor Enclosure Mounting Bracket + FT-1 Cutout Test Switch, Vertical*	9 1 5 9 0 0 0 6 5
	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, Horizontal*	9 1 5 9 0 0 0 6 2
	7xx Outdoor Enclosure, No FT-1 Cutout, Horizontal*	9 1 5 9 0 0 0 9 2

	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 Transformers 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
Literature		
	Instruction Manual for SEL-735*	P M 7 3 5 - 0 1

* Additional Cost

(1) Conformal Coat is included free of charge on NEMA 4 Enclosure Option.

(2) Requires Ethernet.

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

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