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

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

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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
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

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Standard Plus IEC 61850 With GOOSE and MMS[2]*	2
Standard Plus IEC 61850 With GOOSE and MMS[2] With Continuous Waveform Streaming*	3

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-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 **Link to SEL-735 Metering Accessories Flyer (Opens in new window)**

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*	915900014
	Rear-Panel 90 Degree Connector Kit*	915900223
	Rear Connector Kit for SEL-735 (Barrier Style)*	915900532
Self-Shorting Current Connectors		
	Self-Shorting Current Connector, 20 feet (with 6 position male)*	915900264

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	Self-Shorting Current Connector,8 feet (with 8 position male)*	9159004 8
FT Test Switch		
	FT-1 Test Switch*	240-1010
Communication Cables		
	6 kV Ethernet Surge Suppressor Kit*	9159005 18
	SEL-C287R EIA-232 Serial Communications Cable	C287R
	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*	9159001 70
	7xx/24xx Vertical Dust Protection Assembly, Transparent Rear Cover*	9159004 52
	Vertical and EXM Front Panel Sealing Cover Kit*	9159001 76
Configurable Labels		
	Configurable Label Kit (V&H)-3 label sheets*	9260073
Socket Adapters		
	Socket Adapter Form 5*	9159002 56
	Socket Adapter Form 9*	9159002 57
	Form 5 EXM Test-Socket Adapter*	9159002 58
	Form 9 EXM Test-Socket Adapter*	9159002 59
Rack-Mount Brackets		
	Single Horizontal Meter Bracket*	9159000 07
	Two Horizontal Meter Bracket*	9159000 08
	Horizontal Meter and FT-1 Test Switch Bracket*	9159000 09
	Meter and Two FT-1 Test Switch Bracket*	9159000 35
	Single Vertical Meter Bracket*	9159000 50
	Two Vertical Meter Bracket*	9159000 51
	Three Vertical 7xx/24xx Rack Mount Bracket*	9159002 43
	7xx/24xxVertical and 2 FT-1 Switch Cutouts*	9159001 58

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	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

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	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

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	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

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	7xx Outdoor Enclosure Kit + FT-1 cutout, Swing Door, Vertical*	9159000666
	7xx Outdoor Enclosure, No FT-1 Cutout, Vertical*	9159000093
Mounting Accessories		
	Mounting Gasket*	9159000097
	Mounting Brackets for 16" x 18" x 8" Enclosure*	9159002997
Current Transformers Clamp-On		
	Three 200:1 Clamp-On CTs, 0.6" Window, +-1% Accuracy*	9159002009
	Three 1000:5 Clamp-On CTs, 2.0" Window, +-1% Accuracy*	9159002100
Current Tranformers Split-Core		
	Three 1000:5 Split-Core CTs, 4.5" Window, +-3% Accuracy*	9159002111
	Three 2000:5 Split-Core CTs, 6.0" Window, +-3% Accuracy*	9159002122
	Three 3000:5 Split-Core CTs, 8.0" Window, +-3% Accuracy*	9159002133
Projection Mounting Collar		
	Projection Mounting Collar, 45mm*	9159000028
	Projection Mounting Collar, 90mm*	9159000029
Blank Cover Plates		
	ABB-FT 21/22 (CO FT-2) Blank Cover Plate*	9159000084
	GE S1 (IAC S1) Blank Cover Plate*	9159000085
	GE M1 Blank Cover Plate*	9159001422
	ABB-FT 31/32 (CO FT-3) Blank Cover Plate*	9159001433
	ABB-FT 11 (CO FT-1) Blank Cover Plate*	9159001444
	GE MDP/S2 Blank Cover Plate*	9159002330
	241X / 7XX Blanker Plate*	9159003887
Literature		
	Instruction Manual for SEL-735*	PM735-01

* Additional Cost

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

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SEL SCHWEITZER ENGINEERING LABORATORIES, INC.
2350 NE Hopkins Court - Pullman, WA 99163 USA
Phone: +1.509.332.1890 - Fax: +1.509.332.7990

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