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SEL-735 Power Quality and Revenue Meter With Color Touchscreen

Part Number:	0	7	3 !	5 L	_	2	0						X			X	X		0		X
Enclosure Type																					
None					Х																
Easily Extractable Meter (EXM)*					E																
NEMA 4 With FT-1 Test Switch ⁽¹⁾ *					В															2	
Portable Case ⁽¹⁾⁽²⁾ *					С			9	4	4	E	X		Х	Х					2	
Metering Form																					
Form 5								5													
(Three-Wire Delta; 2 PTs, 2 CTs) 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									2												
(range: 19-58 Vdc) 110-240 Vac 50/60 Hz and 110-250									4												
Vdc																					
Slot A Control Input Voltage o Includes 3 Contact Outputs, 2 Inputs																					
24 Vdc/Vac									2	1											
48 Vdc/Vac									2	2											
110 Vdc/Vac									4	3											
125 Vdc/Vac									4	4											
220 Vdc/Vac									4	5											
250 Vdc/Vac									4	6											
Slot B Ethernet (Port 1) Rear o Includes Port 2 EIA-232 Standard	Se	rial	(P	ort	3)																
Single 10/100BASE-T EIA-232											С										
Single 10/100BASE-T EIA-485											E										
Single 100BASE-FX Multimode EIA- 485*											G										
Slot C Communications Field Upgrade Available																					
Empty												Х									
Serial Communications o EIA-232 and EIA-485 Ports*												F									
Telephone Modem*												G									
Slot D I/O Field Upgrade Available																					
Empty														Х	Х						

4 AO (±1 mA) / 4 DO Solid-State (KYZ)*					С	Х				
4 AO (±20 mA) / 4 DO Solid-State (KYZ)*					D	Х				

Slot D Control Input Voltage

Field Upgrade Available												
Empty								Х				
24 Vdc/Vac						1		1				
48 Vdc/Vac						2		2				
110 Vdc/Vac						3		3				
125 Vdc/Vac						4		4				
220 Vdc/Vac						5		5				
250 Vdc/Vac						6		6				

Slot Z Current and Voltage Inputs

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

System Frequency

50 Hz	5
60 Hz	6

Communications Protocol

Field Upgrade Available												
Standard										1		
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⁾												
Standard Plus IEC 61850 With GOOSE										2		
and MMS ⁽³⁾ *												
Standard Plus IEC 61850 With GOOSE										3		
and MMS ⁽³⁾ With Continuous Waveform										3		
Streaming*												

Conformal Coat

No												1	
Yes*												2	

Software Bundle

Soltware Dunule													
None												Х	(
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												C	
(single or additional device license)* 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)*												C)

Energy and Power N	Ionitoring Bundle	
o SEL-5705 Synchro		
Power Quality		
o SEL-5703 Synchro		
Power Monitoring (W Waveform Streamin		
o SEL-5045 acSELei		
for billing and Team		
waveform data (sin	gle or additional	
device license)*		
Accessories		
SEL-735 Getting Sta	arted Kit (includes	
communication cab		9 1 5 9 0 0 4 3 1
connectors, screwd		
SEL-9321 Low-Volta Supply*	ige DC Power	Please see Online MOT or contact SEL REP or CSR for ordering information.
SEL-2401 Satellite-	Synchronized Clock	2 4 0 1
Rear-Panel Connect	or Kit	
	Rear-Panel	915900014
	Connector Kit*	
	90 Degree Connector Kit*	915900223
	Rear Connector Kit	
	for SEL-735 (Barrier Style)*	9 1 5 9 0 0 5 3 2
Self-Shorting Curre		
	Self-Shorting	
	Current Connector,	915900264
	20 feet (with 6	
	position male)* Self-Shorting	
	Current	
	Connector,8 feet	9 1 5 9 0 0 0 4 8
	(with 8 position	
FT Test Switch	male)*	
	FT-1 Test Switch*	240-1010
Communication Cat	6 kV Ethernet	
	Surge Suppressor	9 1 5 9 0 0 5 1 8
	Kit*	
	SEL-C287R Serial	
	Cable (RS-232,	
	DTE-DTE, DB9 M/DB9 F, Hardware	C 2 8 7 R
	Flow Control)	
	SEL-C662 USB	
	Cable for Computer	
		Please see Online MOT or contact SEL REP or CSR for ordering information.
	M/USB A-Type M, Pin 1 Power)*	
Dust Protection and	· ·	
	Dust-Protection	
	Assembly*	915900170
	7xx/24xx Vertical	
	Dust Protection Assembly,	915900452
	Transparent Rear	
	Cover*	
	Front-Panel Sealing	
	Cover Kit for SEL- 734*	9 1 5 9 0 0 1 7 6
	7 5 4	

Configurable Labels	
Configurable Label Kit for SEL-735 (LDM, 3 Sheets)*	9260143
Socket Adapters	
Socket Adapter Form 5*	915900256
Socket Adapter Form 9*	915900257
Form 5 EXM Test- Socket Adapter*	915900258
Form 9 EXM Test- Socket Adapter*	915900259
Rack Mount Brackets	
Single Horizontal Meter Bracket*	91590007
Two Horizontal Meter Bracket*	91590008
Horizontal Meter and FT-1 Test Switch Bracket*	91590009
Meter and Two FT-1 Test Switch Bracket*	915900035
Single Vertical Meter Bracket*	915900050
Two Vertical Meter Bracket*	915900051
Three Vertical Meter Bracket*	915900243
Vertical Meter and two FT-1 Test Switch Bracket*	915900158
Rack Mount Kit, 7xx/24xx Vertical and 7xx/24xx Horizontal Retrofit*	915900141
Rack Mount Kit, 7xx/24xx Vertical*	915900169
19" Rack Mount Bezel for 7xx/24xx Vertical (centered)*	915900228
Vertical Meter and FT-1 Test Switch Bracket*	915900052
Wall Mount Brackets	
Low-Profile, Hinged, Contains 2 Ribbon Cables*	915900255
Low-Profile, Hinged, Contains CT/PT Wiring and 1 Serial Cable*	915900317
Low-Profile, Hinged, Contains CT/PT Wiring and 2 Serial Cables*	915900318
Low-Profile, Hinged, Contains CT/PT Wiring and 3 Serial Cables*	915900319
Hinged Wall-Mount Bracket, Vertical*	915900136

Vertical Hinged Wall-Mount Bracket for SEL-700 Series EXM and SEL-2400 Series EXM*	915900529
Universal CT/PT	915900493
Wiring Harness* Retrofit Bezels	
Single Vertical Meter Retrofit Bezel*	915900053
Vertical Appearance Bezel *	915900058
Vertical Retrofit (GE kV) Bezel*	915900068
Vertical Retrofit (JEM 1 SB) Bezel*	915900069
Vertical Retrofit (JEM 1 Panel Mount) Bezel*	915900070
Vertical Retrofit (JEMStar SB/TransData MK-5 SB) Bezel*	915900072
Vertical Retrofit (Nexus 1260/1270 SB) Bezel*	915900073
Vertical Retrofit (PML ION 8000 SB) Bezel*	915900074
Vertical Retrofit (Schlumberger Q1000 SB) Bezel*	915900075
Vertical Retrofit (Siemens Q4 Tall SB) Bezel*	915900076
SB) Bezel*	915900077
Vertical Retrofit (Siemens Q4 Tall SB with FT-1 Test Switch Cutout)*	915900140
Vertical Retrofit (Square-D Power Logic 2000)*	915900275
Vertical Retrofit (GE 169/269/369 and Eaton FP5000)*	915900054
Vertical Retrofit(GE 469)*	915900055
Vertical Retrofit(Cutler- Hammer MP- 3000)*	915900057
Bezel, CO (FT-2) to 7XX Vertical*	91590078
Bezel, GE F650 to 7XX Vertical*	915900079
Bezel, GE 700 Series to 7XX Vertical*	91590080
Bezel, Basler 851/951 to 7XX Vertical*	915900081

ABB 500 Series to	
7xx/24xx Vertical Retrofit*	915900082
Bezel, Siemens 7SJ61 (1/3 Rack Case) to 7XX Vertical*	915900083
Bezel, ABB 500 Series (1/2 Rack Case) to 7XX Vertical*	91590086
GE ML 269 Plus With Drawout Case Option to 7xx/24xx Vertical Retrofit*	915900099
ABB-FT 31/32 (CO FT-3) to 7xx/24xx Vertical Retrofit with 2 FT-1 Switch Cutouts*	915900130
GE MDP/S2 to 7xx/24xx Vertical Retrofit*	915900132
GE M1 to 7xx/24xx Vertical Retrofit*	915900133
GE M2 to 7xx/24xx Vertical Retrofit*	915900134
GE 565 to 7xx/24xx Vertical Retrofit*	915900145
ABB-FT 41/42 (CO FT-4) to 7xx/24xx Vertical Retrofit with 2 FT-1 Switch Cutouts*	915900156
ABB DPU to 7xx/24xx Vertical Retrofit*	915900157
GE S1 (IAC S1) to 2 FT-1 Switch Cutouts*	915900159
GE 269/369 to 7xx/24xx Vertical Retrofit with FT-1 Switch Cutout*	915900165
GE DGP to 7xx Vertical Retrofit*	915900355
EXM Retrofit Bezel, JEMStar SB/TransData MK-5 SB*	915900196
701/Simpro Retrofit Bezel*	915900197
Indoor Enclosure Brackets	
7xx Indoor Enclosure Mounting Bracket + FT-1 Cutout Test Switch, Vertical*	915900065
7xx Indoor Enclosure Mounting Bracket, No FT-1 Cutout, Vertical*	915900091

Outdoor Enclosure Kits		
	7xx Outdoor	
	Enclosure Kit + FT-	915900066
	1 cutout, Swing Door, Vertical*	
	7xx Outdoor Enclosure, No FT-1 Cutout, Vertical*	915900093
Mounting Accessories		
	Mounting Gasket*	915900097
	Mounting Brackets for 16" x 18" x 8" Enclosure*	915900297
Current Transformers Clamp-On		
	Three 200:1	
	Clamp-On CTs, 0.6" Window, +-1% Accuracy*	915900209
	Three 1000:5 Clamp-On CTs, 2.0" Window, +-1% Accuracy*	915900210
Current Tranformers Split-Core		
	Three 1000:5 Split- Core CTs, 4.5" Window, +-3% Accuracy*	915900211
	Three 2000:5 Split- Core CTs, 6.0" Window, +-3% Accuracy*	915900212
	Three 3000:5 Split- Core CTs, 8.0" Window, +-3% Accuracy*	915900213
Projection Mounting Collar		
	Projection Mounting Collar, 45mm*	915900028
	Projection Mounting Collar, 90mm*	915900029
Blank Cover Plates		
	ABB-FT 21/22 (CO FT-2) Blank Cover Plate*	915900084
	GE S1 (IAC S1) Blank Cover Plate*	915900085
	GE M1 Blank Cover Plate*	9 1 5 9 0 0 1 4 2
	ABB-FT 31/32 (CO FT-3) Blank Cover Plate*	915900143
	ABB-FT 11 (CO FT- 1) Blank Cover Plate*	915900144
	GE MDP/S2 Blank Cover Plate*	915900230
	241X / 7XX Blanker Plate*	915900387
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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