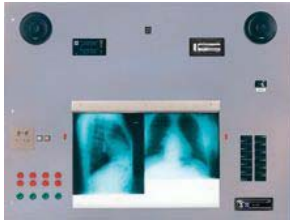




Duplex Isolation Power Panel, see page 16-3



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All Square D™ brand Isolation Power Panels meet or exceed UL 1022 and 1047 and are cUL Listed.

All products listed in this section are available through standard ordering procedures from authorized Schneider Electric distributors. For more information, contact your nearest Schneider Electric sales office or distributor. Call 1-888-Square D (778-2733) or visit www.schneider-electric.us.

NOTE: The National Electrical Code® (NEC®) **requires** audible and visual alarm indication where isolation power is used (NEC 517-160).

OR, ICU/CCU, and Controlled Isolation Power Panels—UL Listed

NOTE: The NEC requires audible and visual alarm indication where isolation power is used (NEC 517-160).

The catalog number creates all components needed for a complete panel including eight circuits. All standard panels are field expandable to 16 circuits for the OR and ICU panels by adding QO™ circuit breakers. All panels come with a main circuit breaker. All panels are 5 mA and field adjustable. All panels include a remote alarm indicator for panel or wall mounting. A backbox (single gang) is provided by others. Other options are available for each design. Six-inch panels are not available for all kVA ratings.

For more information, contact your nearest Schneider Electric sales office or distributor.



Table 16.1: Catalog Number Matrix (refer to Table 16.2 for the available options for each field)

Basic OR Panel							ICU/CCU Panels				Controlled Panels			
Transformer kVA	Panel Mounting	Primary Voltage	Secondary Voltage	Panel Type	Circuit Breaker Type	Total No. of Circuits	No. of 120 V Receptacles	Type of 120 V Receptacles		No. of Ground Jacks	Type of Control	No. of Total Circuits	No. of 'ON' Circuits	Output Amperes
1	2	3	4	5	6	7	8	9	10	11	8	9	10	11

Table 16.2: Options

Basic OR Panel					ICU/CCU Panels				Controlled Panels								
1	Transformer kVA				Add these options to the basic OR panel for power / ground outputs.									Add these Control options to the basic OR panel.			
	3	3 (maximum 277 volt primary)			8	Number of 120 volt receptacles			Type of control								
	5	5				8 maximum			8	M	Mechanical interlock						
	7	7.5				Type of 120 volt receptacles				K	PLC interlock						
	10	10				DR	Duplex red				Interposing contact (limit of four circuits)						
15	15			DW		Duplex white		N			Non-interposing contact						
25	25			DI	Duplex ivory		D		No controls or contactors								
2	Panel mounting				9-10	SR	Single red		9	Total number of circuits in the panel							
	F	Flush				SW	Single white			Enter 1 thru 8							
S	Surface			SI		Single ivory		Schneider Electric has a variety of designs for Controlled Panels with more than 8 circuits. For more information, contact your nearest Schneider Electric sales office.									
3-4	Primary and secondary voltage		Main circuit breaker			HR	Hospital-only (Hubbell 23000)			10	Total number of circuits HOT at one time						
	1	120	60 A	80 A		100 A	TL	L5-20 twist lock			1 Minimum Note: Recommended four maximum						
	2	208	30 A	45 A		60 A	11	Number of ground jacks			Output ampere						
	3	240	30 A	40 A		60 A		6 Maximum			20 to 60 A maximum						
	4	277	25 A	35 A		45 A		Options for this section include a Music Center. The Music Center consists of an AM/FM radio with cassette, CD single player, or CD changer. Contact your nearest Schneider Electric sales office for this option.									
5	480	15 A	20 A	30 A		For Chicago-code ground for ALL panels, add "C" as the Catalog No. suffix.											
5	Type of panel					International and special voltage codes available. For other options including "N USE" Light Control Panels, contact your nearest Schneider Electric sales office.											
	A	Low profile transformer (6 in.)															
6	Type of panel circuit breakers																
	T	Standard transformer (8 in. or 12 in.)															
7	Total number of circuits																
	#	8 standard—16 maximum															

Table 16.3: Catalog Numbering Example

Basic Panel							ICU/CCU Options				Controlled Panel Options			
1	2	3	4	5	6	7	8	9	10	11	8	9	10	11
5	F	2	1	T	S	12	4	D	R	4	P	8	4	30
5 kVA flush-mount, 208 V primary, 120 V secondary, standard transformer, snap-in, 12 circuits							4 duplex red receptacles, 4 grounds				PLC, 8 circuit, 4 of 8 active, 30 A			



The Duplex Isolation Power Panel is a single enclosure containing two complete 120 V secondary hospital isolation systems. A divider in the unit's backbox separates the systems from top-to-bottom and front-to-back.

Each system has its own set of equipment:

- Primary circuit breaker
- Square D™ brand isolation transformer
- Reference ground bus bar
- Square D brand Iso-Gard™ line isolation monitor (LIM)
- Load center

Duplex Power Panel—UL Listed

NOTE: The NEC requires audible and visual alarm indication where isolation power is used (NEC 517-160).

The catalog number creates all components needed for a complete panel, including 8 circuits. All OR panels can be field expanded to 16 circuits by adding QO circuit breakers. All panels include a main circuit breaker. All panels are 5 mA and field adjustable. All panels include a remote alarm indicator for panel or wall mounting. Single-gang backboxes can be provided by others. Other options are available for each design.

For more information, contact your nearest Schneider Electric sales office or distributor.

Table 16.4: Catalog Number Matrix (refer to Table 16.5 for the available options for each field)

Transformer kVA		Panel Mounting	Primary Voltage	Secondary Voltage	Primary Voltage	Secondary Voltage	Chicago Ground
Left Side	Right Side		Left Side		Right Side		
1	2	3	4	5	6	7	8

Table 16.5: Options

1 & 2	Transformer kVA					
	5		5			
	7		7.5			
3	Panel mounting					
	10		10			
	F		Flush			
4, 5, 6, & 7	S		Surface			
	Primary and secondary voltage		Main circuit breaker			
	1	120	5 kVA	7.5 kVA	10 kVA	
	2	208	60 A	80 A	100 A	
	3	240	30 A	45 A	60 A	
	4	277	30 A	40 A	60 A	
	5	480	25 A	35 A	45 A	
8	Chicago-type ground		15 A	20 A	30 A	
	C	Leave blank for standard ground				

Power/Ground Module—UL Listed

Table 16.6: Ordering Information

Description	Dimensions	Catalog No.
16 gauge stainless steel trim		
4 "Powerlock" / 4 ground receptacle	Trim 9.5 in. x 13.5 in.	RM1204NI
4 ivory duplex / 4 ground receptacle	Trim 9.5 in. x 13.5 in.	RMD11204NI
4 red duplex / 4 ground receptacle	Trim 9.5 in. x 13.5 in.	RMDR1204NI
4 ground receptacle	Trim 9.5 in. x 13.5 in.	GS1204NI
Backbox	8 in. H x 12 in. W x 4 in. D	53007BB
8 gang stainless steel trim—box not provided		
4 "Hubbelock" / 4 ground receptacle	Trim 4.5 in. x 15.43 in.	RM504NI
4 ivory duplex / 4 ground receptacle	Trim 4.5 in. x 15.43 in.	RMDI504NI
4 red duplex / 4 ground receptacle	Trim 4.5 in. x 15.43 in.	RMDR504NI
4 ground receptacle (4-gang outlet box)	Trim 4.5 in. x 8.19 in.	GS504NI
Master ground module 18-point ground bus—16 gauge stainless steel trim		
18-point terminal bus	Trim 9.5 in. x 13 in.	GS1200I
Backbox	8 in. H x 12 in. W x 4 in. D	53007BB
Ground cord assembly for power/ground modules		
15 ft. w/ lug	—	P751N
15 ft. w/ insulated clip	—	P753N

▲ Schneider Electric Medical Products offers many options for power/ground modules. Contact your nearest Schneider Electric sales office.



Powerlock/Ground Module RM1204NI



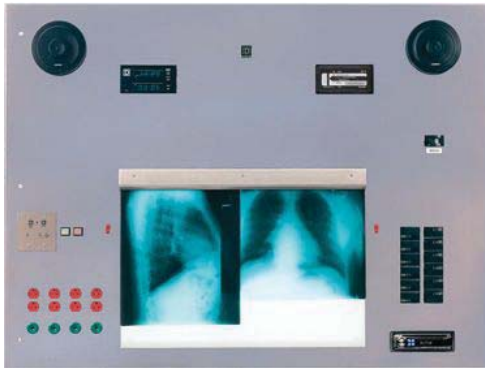
Duplex/Ground Module RMDR1204NI



Ground Module GS1204NI



Ground Cord Assembly P753N



Typical Surgical Facility Panel

Square D™ brand surgical facility panels combine several required operating room components in an economical, UL Listed package. Isolated power centers, power outlets, time clocks and controls, and X-ray film viewers are grouped together in one enclosure that can be easily installed and maintained. When installed separately, these items require expensive labor and take up valuable surgical suite space.

Standard Equipment

- Square D brand Iso-Gard™ line isolation monitor (LIM)
- Primary main circuit breaker
- Secondary branch circuit breakers—(16) 20 A, 2-pole
- Ground bar

Optional Equipment

- 5 kVA, 7.5 kVA, or 10 kVA isolation transformer
- AM/FM/cassette stereo system
- AM/FM/CD (single or multi-play) stereo system
- Twin X-ray film illuminator
- Portable X-ray film illuminator
- Portable X-ray receptacle
- Digital or dial clocks and timers
- Power receptacles—single, duplex, or locking type “Hospital Use Only”
- Ground jacks

Surgical Facility Panel—UL Listed

NOTE: The NEC requires audible and visual alarm indication where isolation power is used (NEC 517-160).

Some items CANNOT be sold separately. Surgical facility panels are priced, ordered, and shipped as three separate parts: the front cover, the isolation transformer, and the backbox. Contact your nearest Schneider Electric sales office for custom pricing.

Table 16.7: Ordering Information

Description					
Electrical system—Position #1					
SF5	5.0 kVA isolation transformer provision (specify primary voltage)				
SF7	7.5 kVA isolation transformer provision (specify primary voltage)				
SF10	10.0 kVA isolation transformer provision (specify primary voltage)				
Primary and secondary voltage codes ▲					
	1	2	3	4	5
	120	208	240	277	480
Electrical components					
Base Price includes Electrical System, Transformer, Backbox, and Remote Alarm Indicator with PUSH-TO-TEST LIM, Trim, Main Circuit Breaker, 16 (QO220) Secondary Breakers, Ground Bus, and all mounting provisions for mounting transformer.					
Receptacles and switches—Position #2					
Sn■	Single 20 A, hospital grade; specify color when ordering (each)				
Dn■	Duplex, 20 A, hospital grade; specify color when ordering (each)				
Pn■	Power-Lock 20 A, hospital-only, available in black only (each)				
Hn■	X-ray (Hubbell IN16494) 60 A, with LIM indicator/alarm				
Gn■	Ground Jacks 30 A (each)				
Tn■	Toggle Switch 20 A, 2-pole, specify color when ordering (each)				
Clocks, clock/timers—Position #3					
1	MCT12B dual display digital clock/timer				
2	MCTCT remote control for MCT12B, includes battery pack				
3	MCT14B surgical chronometer				
4	MCT4RC remote control for MCT14B, includes battery pack				
5	Dial type elapsed time indicator and control				
6	Dial type clock, manual adjustment				
7	Simplex Celestra digital elapsed time indicator and control—2 in. high digits				
8	Simplex Celestra digital clock				
Miscellaneous components—Position #4					
DX	Double size film illuminator—for x-ray viewing				
CA	AM/FM/cassette stereo with speakers—antenna not supplied				
CD	AM/FM/single play CD stereo with speakers—antenna not supplied				
MP	AM/FM/cassette/multi-play CD stereo with speakers—antenna not supplied				

- ▲ Contact your nearest Schneider Electric sales office for international and special voltage codes.
- “n” indicates number of devices. Maximum of six receptacles and ground jacks (depending on available space).

Table 16.8: Catalog Numbering Example SF521 D4G4 12 DXCD ♦

Position	Qty.	Description
1	1	5XR21 isolation transformer (5.0 kVA, 208–120 V)
2	4	Duplex receptacles (specify color when ordering)
2	4	Ground jacks
3	1	MCT12B dual display digital clock/timer
3	1	MCTCT remote control
4	1	Double size film illuminator
4	1	AM/FM/CD single player

♦ Note use of spacing and position numbering to complete the catalog number.

Table 16.9: Isolation Transformers

Description	Main Circuit Breaker
5XR11, 5.0 kVA, 120–120 V	60 A
5XR21, 5.0 kVA, 208–120 V	30 A
5XR31, 5.0 kVA, 240–120 V	30 A
5XR41, 5.0 kVA, 277–120 V	25 A
5XR51, 5.0 kVA, 480–120 V	15 A
53040BB Backbox (42 in. H x 56 in. W x 8 in. D)	
7XR11, 7.5 kVA, 120–120 V	80 A
7XR21, 7.5 kVA, 208–120 V	45 A
7XR31, 7.5 kVA, 240–120 V	40 A
7XR41, 7.5 kVA, 277–120 V	35 A
7XR51, 7.5 kVA, 480–120 V	20 A
53032BB Backbox (42 in. H x 56 in. W x 12 in. D)	
10XR11, 10.0 kVA, 120–120 V	100 A
10XR21, 10.0 kVA, 208–120 V	60 A
10XR31, 10.0 kVA, 240–120 V	60 A
10XR41, 10.0 kVA, 277–120 V	45 A
10XR51, 10.0 kVA, 480–120 V	30 A
53059BB Backbox (42 in. H x 56 in. W x 12 in. D)	

The dual output voltage hospital isolation panel is a single ungrounded hospital isolation panel that can supply two different output voltages simultaneously. Similar to a standard distribution panel or load center, it can supply either 208/120 or 240/120 volts of ungrounded, isolated,

single phase power using only one isolation transformer. Other hospital isolation panels can supply only one output voltage. The panel is ideally suited for renovation or surgical center projects.

Table 16.10: Interior

Description
(1) Primary voltage 2 = 208 V 3 = 240 V 4 = 277 V 5 = 480 V
(2) Output voltage A = 120/208 V B = 120/240 V
(3) Size rating of 120 V secondary winding (kVA) ▲ 5 = 5.0 kVA 7 = 7.5 kVA 1 = 10.0 kVA
(4) Number of 30 A green ground receptacles 0 = None 1 = One 2 = Two 3 = Three 4 = Four 5 = Five 6 = Six
(5) Number of 120 V power receptacles 0 = None 1 = One 2 = Two 3 = Three 4 = Four 5 = Five 6 = Six
(6) Type of 120 V power receptacles 0 = No 120 V receptacles R = 20 A, red hospital grade duplex I = 20 A, ivory hospital grade duplex B = 20 A, black hospital grade duplex T = 20 A, brown hospital grade duplex L = 20 A, black hospital-only locking type receptacle (Hubbell #23000HG or equivalent)
(7) Configuration of 208 or 240 V receptacle #1 ■ 0 = No 208 or 240 V receptacle X = Hubbell #IN16 494 (equivalent to Hubbell #25603) A = NEMA Type #6-15R B = NEMA Type #6-20R C = NEMA Type #6-30R D = NEMA Type #6-50R E = NEMA Type #L6-15R F = NEMA Type #L6-20R G = NEMA Type #L6-30R
(8) Configuration of 208 or 240 V receptacle #2 ■ 0 = No 208 or 240 V receptacle X = Hubbell #IN16494 (equivalent to Hubbell #25603) A = NEMA Type #6-15R B = NEMA Type #6-20R C = NEMA Type #6-30R D = NEMA Type #6-50R E = NEMA Type #L6-15R F = NEMA Type #L6-20R G = NEMA Type #L6-30R

- ▲ 120 V section of panel interior will be factory loaded with 8-20/2 branch breakers. This panel section is field expandable to 16 branch breakers by ordering additional circuit breaker catalog numbers QO220.
 - 208 V or 240 V section of panel interior will be factory loaded with the correct circuit breaker to match the selected receptacle. If no receptacle is selected, this section of the panel interior is field expandable to 2 branch breakers by ordering catalog number QO220 through QO260.
- Note: Total transformer kVA rating is the sum of the 120 V winding and the 208 V (or 240 V) winding.

Table 16.11: Transformer

120 V Winding Rating (kVA)	Primary Voltage	Secondary Voltages	Catalog No.
5.0	208	208/120	DVT522
5.0	208	240/120	DVT523
5.0	240	208/120	DVT532
5.0	240	240/120	DVT533
5.0	277	208/120	DVT542
5.0	277	240/120	DVT543
5.0	480	208/120	DVT552
5.0	480	240/120	DVT553
7.5	208	208/120	DVT722
7.5	208	240/120	DVT723
7.5	240	208/120	DVT732
7.5	240	240/120	DVT733
7.5	277	208/120	DVT742
7.5	277	240/120	DVT743
7.5	480	208/120	DVT752
7.5	480	240/120	DVT753
10.0	208	208/120	DVT122
10.0	208	240/120	DVT123
10.0	240	208/120	DVT132
10.0	240	240/120	DVT133
10.0	277	208/120	DVT142
10.0	277	240/120	DVT143
10.0	480	208/120	DVT152
10.0	480	240/120	DVT153

Table 16.12: Trim

Catalog No.
DVC

Table 16.13: Backbox

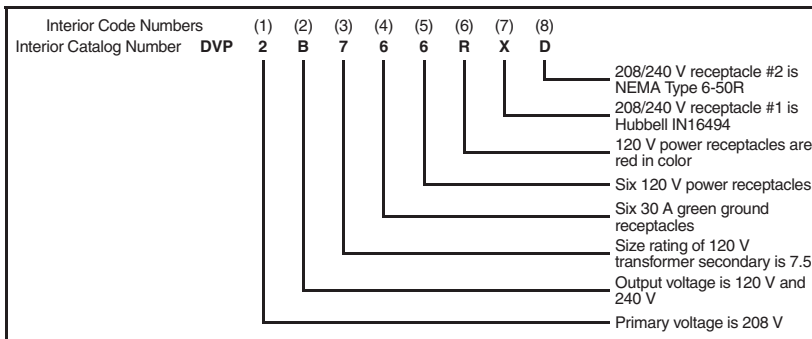
Catalog No.	Description	Dimensions
DVBF	flush mount	62 in. H x 34 in. W x 12 in. D
DVBS	surface mount	64 in. H x 36 in. W x 12 in. D

NOTE: The NEC requires audible and visual alarm indication where isolation power is used (NEC 517-160).

Catalog Numbering System Notes and Pricing

Catalog # DVP (1)(2)(3)(4)(5)(6)(7)(8)

Fill-in parenthesis from selections listed above.





Receptacle and Indicator Module XRIAI-XRIADI

Accessories Panel

The Accessories Panel accommodates options typically found in the operating room environment, including receptacles, clock/timers, and music centers. Other options include relays for controlling "IN USE" lights for laser and X-ray.

Table 16.14: Ordering Information

Unit Part Number	Component Number
Base Price Catalog Number AP	
Clock/timer	
CT	MCT12B
CR	MCTCT
CB	MCTBP
ST	MCT14B
SR	MCT4RC
Remote alarm indicator	
IA	IA1C
MA	M5IAI
MM	MMIAI
RA	RA1
Music center	
RC	AM/FM cassette
RP	AM/FM/CD single play CD player
RM	AM/FM/CD multi-play CD player
Receptacles (Maximum of 8)	
A-#	5-20R (duplex red)
B-#	5-20R (single red)
C-#	6-20R
D-#	L6-20R
E-#	6-30R
F-#	L6-30R
G-#	Hubbellock
X-#	X-ray
S-#	Special
Ground jacks	
N-#	1-8
Relay (For use with controlled power panels only)	
R-#	Ice cube relay (1-16)



Remote Push Button Station and Alarm 8CIIAI



Dual Display Digital Clock Timer MCT12B

Instructions: Combine the unit part numbers to build the desired panel. The catalog number must begin with "AP" and corresponding number to follow. For example, APCTCRMARMA4N4 will produce a panel containing a MCT12B clock/timer with a MCTCT remote control, a M5IAI remote alarm indicator, a AM/FM/CD multi-play music center, four HBL8310R receptacles, and four SLR3 ground jacks.

The purchase price includes the appropriate backbox. Some components may not be able to be installed with others, and may be considered as special items. Contact your nearest Schneider Electric sales office for all special item pricing.

Table 16.15: X-ray Indicator/Receptacle Module Supervisory Module for Controlled Panels

Description	Dimensions	Catalog No.
Receptacle & indicator module	13 in. H x 9.5 in. W Trim	XRIAI
Receptacle & indicator module w/ switch	13 in. H x 9.5 in. W Trim	XRIADI
Backbox	12 in. H x 8 in. W x 4 in. D	53007BB
Remote push button station and alarm ♦	13 in. H x 11 in. W Trim	8CIIAI
Backbox	12 in. H x 10 in. W x 6 in. D	53004BB

Receptacles quoted include a Hubbell 50/60 A, X-ray type 25000. For other receptacles, indicate the NEMA configuration after the Catalog Number. For example, XRIADINEMAL630R

Table 16.16: Nurses' Station Indicator/Alarm Annunciator

Catalog No.	Backbox Application	Backbox Dimensions
IA2CI IA3CI IA4CI	53008BB	12 in. H X 4 in. W X 4 in. D
IA5CI IA6CI IA7CI IA8CI	53007BB	12 in. H X 8 in. W X 4 in. D
IA9CI IA10CI IA11CI IA12CI	53005BB	12 in. H X 12 in. W X 4 in. D

Table 16.16: Nurses' Station Indicator/Alarm Annunciator (continued)

Catalog No.	Backbox Application	Backbox Dimensions
IA13CI IA14CI IA15CI IA16CI	53006BB	15 in. H X 12 in. W X 4 in. D
IA17CI IA18CI IA19CI IA20CI	53021BB	18 in. H X 4 in. W X 6 in. D
IA21CI IA22CI IA23CI IA24CI	53011BB	12 in. H X 20 in. W X 6 in. D

Table 16.17: Accessories and Replacement Parts

Description	Catalog No.
1/4 A fuse (Wickman TR5T)	TR5
2 mA meter	6301002350
5 mA meter	6301060250
Fuseholder/cap (black)	2549909510
1/4 A fuse (glass fuse)	4319900406
Green LED	GLED
Red LED	RLED
Yellow LED	YLED
Interior only for 1A-1C (no trim)	IANC
SAFE/SILENCE assembly for remote alarm	SSPB
HAZARD/PUSH-TO-TEST assembly for remote alarm	HPPB
HAZARD assembly for remote alarm	HPB
SAFE/SILENCE replacement lens	SLEN
HAZARD/PUSH-TO-TEST replacement lens	HPLEN
HAZARD replacement lens	HLEN
Buzzer only for remote alarm	4319950001
Accessory -E booster power supply for three or more remote indicator alarms.	EXR

Table 16.18: Digital Clock/Timers—UL Listed

Description	Catalog No.
Dual display clock/timer	
Clock/timer with separate displays	MCT12B
Rechargeable battery pack for MCT12B (Optional)	MCTBP
Remote control unit w/ rechargeable battery pack for MCT12B (Optional)	MCTCT
Stainless steel trim plate	MCTS95135
Backbox to be used with MCT95135	53007BB
Clock/timer complete with backbox and trim	MCT12BC

Note: A complete clock/timer can be ordered using the catalog number MCT12BC. This includes the clock/timer, stainless steel trim and backbox. Remote control or battery pack must be ordered separately.

Note: The battery pack and remote control do not work together.

Surgical Chronometer

Clock and three timers	MCT14B
Backbox	53006BB
Auxiliary control	MCT4RC
Backbox	53008BB
Chronometer complete	MCT14BC

Note: A complete surgical chronometer can be ordered using catalog number MCT14BC. This includes the chronometer, Remote control and both backboxes. All of these items are required for one complete unit.

Table 16.19: Remote Alarm Indicators

Description	Where Remote Alarm is REQUIRED	Catalog No.
Single gang remote with meter display included with all new panels	Panel- or wall-mounted; no face plate	RA1
	Panel-mounted; includes face plate	RA1PM
	Wall-mounted; includes face plate	RA1WM
Green, amber, and red indicating lights and audible alarm mounted on front trim	Panel-mounted in the room	ORICA
Green, amber, and red indicating lights, PUSH-TO-TEST button, audible alarm, and milliammeter mounted on front trim ♦	Panel-mounted in the room	ORICA5C
Wall-mounted backbox not supplied. Fits standard 2 gang box (3.5 in. deep)	Panel-mounted outside the room	IA1C
Wall-mounted 53008BB backbox required (backbox 4 in. H x 12 in. W x 4 in. D) ♦	Panel-mounted outside the room	M5IAI
Wall mounted backbox not supplied. Fits standard 4 gang box (3.5 in. deep) ♦	Panel-mounted outside the room	M5IAI50

Note: PUSH-TO-TEST option for any of the above remotes—add PTT after the catalog number.

♦ Includes meter for 5 mA LIM. For 2 mA LIM applications, change to catalog number ORICAC. 2 mA analog meter available. Contact Schneider Electric.



Surgical Chronometer MCT14B