

PowerLogic® Circuit Monitor

PowerLogic series 3000 and 4000 circuit monitors are multifunction digital metering and monitoring devices capable of replacing a variety of meters, relays, transducers, and other components. Data available for local viewing includes metered values plus extensive min/max, alarm, and analog/digital input data. Circuit monitor data is available for viewing and recording via standard RS-485, RS-232 (series 4000 only) or optional Ethernet communications. A 4-line x 20-character LCD type display with customizable displays is provided as standard. An optional vacuum fluorescent display with backlighting is also available. The circuit monitors offer waveform capture, event/alarm logging and custom alarms. Included with the circuit monitor are a current transformer, current transformer shorting terminal block, current/voltage module, voltage connections, and power supply.



PowerLogic CM4000

Description	Application
Monitors	
CM3250 with LCD Display	Circuit Monitor, data logging, waveform capture, 8MB memory, LCD Display
CM3350 with LCD Display	Circuit Monitor, same features as CM3250 with Disturbance Monitoring
CM4250 with LCD Display	Instrumentation, data logging, waveform and disturbance capture, programmable logic, 2 option card slots
CM4000T with LCD Display	CM4000 features plus high-speed voltage transient detection and capture.
CMDLC	4-line x 20 character Liquid Crystal Display with backlighting
CMDVF	4-line x 20 character Vacuum Fluorescent Display with I/R port and proximity sensor substituted for standard LCD display
I/O Modules	
IOC 44 ^{1,2}	Field Installable I/O card with 4 status inputs, 3 relay (10 A) outputs, and 1 pulse output (KYZ)
IOX0404 ³	I/O Extender module with 4 status inputs and 4 analog inputs (4 to 20 mA)
IOX2411 ³	I/O Extender module with 4 inputs (32 Vdc), 2 outputs (60 Vdc), 1 analog input (0-5 Vdc), 1 analog output (4-20 mA)
IOX08 ³	I/O Extender module with 8 status inputs (120 Vac)
IOX ³	I/O Extender module only, no installed I/O, accepts up to 8 I/O modules with maximum of 4 analog I/O
Accessories	
ECC21 ^{1,2}	Ethernet communications card, 100 Mbps fiber and 10/100 Mbps UTP Ethernet port and 1 RS-485 master port

- ¹ Only one slot is available for I/O Modules or the Ethernet ECC21 card on CM3000.
- ² Two slots are available for two IOC44 I/O Modules or one IOC44 I/O Module and one Ethernet ECC21 card on CM4250/4000T.
- ³ Available on CM4250/4000T only. Choose only one module per circuit monitor.

Circuit Monitor Space Requirements

Device Type	Additional Space Requirements (Inches)		
	Main Unit	Monitor Unit ¹	Total
Main Lugs			
600–1200 A	0	12	12
1600–2500 A	0		12 ²
Main Circuit Breaker			
110–250 A	6	12	18
300–400 A	9		21
450–600 A	6		18
800 A	15		27
1200 A 80% rated	15		27
1200 A 100% rated; 1600–2500 A	0		12
Main Fusible Switch			
200 A	6	12	18
Top Located, 400 A	3		15
Bottom Located, 400 A	6		18
600–800 A	12		24
Top Located, 1000–2000 A	0		12
Bottom Located, 1000–2000 A	12		24
1600–2000 A	0		12

- ¹ The circuit monitor unit must be placed adjacent to (below, above, or next to) the main unit.
- ² If space is not available for the circuit monitor, an option is available to integrate the metering equipment on the door of main. This option requires no additional space for the circuit monitor module. On bottom located mains, this option protrudes 6.2 in. out from the door and reduces customer aisleway by the same dimension.