



POWER METERS

Serving OEMs, Distributors, and Contractors with Application Solutions for: Power Monitoring, Load Trending, Power Quality Analysis, Predictive Maintenance, ROI Project Justification, Burden/Energy Cost Reductions, Data Centers, Industrial Equipment, Renewable Energy, Electric/Energy/Water Metering

workaci.com | 1-888-967-5224



Automation Components, Inc.

2305 Pleasant View Road | Middleton, WI 53562



Applications:

- Power Monitoring
- Load Trending
- Power Quality Analysis
- Predictive Maintenance
- ROI Project Justification
- Burden/Energy Cost Reductions
- Data Centers
- Industrial Equipment
- Renewable Energy
- Electric/Energy/Water Metering

POWER METERS

ACI power meters can reduce your energy consumption through predictive maintenance, identification of underperforming equipment, calculation of ROI, and many other measurements. They can communicate with a BMS or work as stand-alone data loggers. ACI has the technical knowledge to ensure your installation is on time and on budget.



KW350 SERIES POWER METER

Three Circuit, 0.5 Class Accuracy, DIN Rail Mount, RS-485 Serial Communication Protocols

- Revenue grade accuracy
- BACnet™ MS/TP and Modbus RTU protocols
- LCD display
- Optional NEMA 4X enclosure
- Energy pulse output



KW320 SERIES POWER METER

Three Circuit, 0.1 Class Accuracy, Panel Mount, RS-485 Serial/Ethernet Communication Protocols

- Revenue grade accuracy
- BACnet™ (MSTP/IP), Modbus (RTU/TCP/IP), plus additional internet protocols including: SMTP email, HTTP/HTTPs web server, HTTP/HTTPs push, FTP post, sFTP server, Ethernet/IP, MQTT, RSTP, IPV6, Wi-Fi, and more
- LCD display
- Data logging and event storage (8 GB memory)
- Power quality analysis/waveform capture
- Dual ethernet ports
- Optional panel upgrade with NEMA 4X enclosure, prewired and labeled terminals for CTs, terminal blocks for voltage input, power supply, and industrial-grade fuses
- DIN rail mounting adaptor (optional)
- Low-cost BACnet™ IP version available—KW320B series



KW1850 SERIES POWER METER

18 Circuit, 0.5 Class Accuracy, DIN Rail Mount, RS-485 Serial/ Ethernet Communication Protocols

- Revenue grade accuracy, Measurement Canada Approved
- BACnet™ IP and Modbus (RTU and TCP/IP), plus additional internet protocols including: SMTP email, HTTP/HTTPs web server, HTTP/ HTTPs post, FTP post, sFTP server, Ethernet/IP, MQTT, RSTP, IPV6, Wi-Fi, and more
- LCD display
- Data logging and event storage (8 GB memory)
- Power quality analysis/waveform capture
- Dual ethernet ports
- Includes snap-on CT installation kit (Qty: 20)
- NEMA 4X enclosure (optional)



Power Meter Selection Guide

SPECIFICATIONS		KW350	KW320	KW320Q	KW1850-P1-D-S	KW1850-P1-D-W	KW320B
POWER METER FEATURES	OPTIONAL: Meter Mounted/Pre-Wired NEMA 4X Encl, Fuses	•	•	•			
	Stocked Product	•	•		•	•	•
	Number of CT Inputs	3	4	4	18	18	3
	Uni-Directional Power Monitoring	•	•	•	•	•	•
	Bi-Directional Power Monitoring	•	•	•			•
	1 Phase (2 or 3 Wire)/ 3 Phase (3 or 4 Wire) Services	•	•	•	•	•	•
	Volts AC (Line to Neutral), 50/60 Hz	100 - 415					
	Volts DC	100 - 300					
	ANSI C12.20	0.5 Class	0.1 Class	0.1 Class	0.5 Class	0.2 Class	
	IEC 62053-22	0.5S Class	0.1S Class	0.1S Class	0.5S Class	0.2S Class	
	Revenue Grade Accuracy	•	•	•	•	•	•
	Measurement Canada Approved				•	•	
	Data Logging		8 GB Data	8 GB Data	8 MB	8 GB	
	1 Energy Pulse Output and 1 Alarm Output Standard	•					
	18 Digital Inputs/6 Digital Outputs/2 Relay Outputs Standard				•	•	
	Waveform Capture and Power Quality Event Logging			•			
	Individual Harmonics and Total Harmonic Distortion (THD)		•	•	•	•	
	LCD Display	•	•	•	•	•	•
	BACnet MS/TP	•	•	•	•		
	Modbus RTU	•	•	•	•	•	
BACnet IP		•	•		•	•	
Modbus TCP		•	•		•		
Two RJ45 Ports		•	•		•		
ACCESSORIES	600 VAC/1A Fuse Kits	•	•	•	•	•	•
	Model # KW350-ENC (NEMA 4X Polycarbonate Encl)	•					
	Model # KW1850-ENC (NEMA 4X Polycarbonate Encl)				•	•	
	Model # AXM-Din (Din Rail Adaptor)		•	•			•
	Model # USB-RS485	•			•		
	Snap On CT Kit Model # SO-SP1 Kit (Qty: 20)				•	•	
APPLICATIONS	Sub-Metering Electrical / Sub-Panel (Mains)	•	•	•			•
	Sub-Metering Elec. Sub-Panel (Multiple Loads/Circuits)				•	•	
	Equipment Monitoring Large Loads / Predicted Maintenance	•	•	•	•	•	•
	Tenant Billing		•		•	•	•
	Industrial	•	•	•	•	•	•
	Power Quality			•	•	•	
	Return on Investment (ROI) Projects	•	•		•	•	•
	Solar / Wind / Renewable Energy Projects	•	•	•			•
	Energy Cost Accounting (Burden/Overhead Reduction)	•	•		•	•	•
	"NET ZERO" / LEED / Green Buildings	•	•		•	•	•
	Data Centers		•	•	•	•	•
	Refrigeration	•	•	•	•	•	•
	IoT / IIoT (Industrial/Internet of Things)		•	•		•	•
	Gas/Energy/Water Metering	•			•	•	



Current Transformer Product Selection Guide

FEATURES	SPECIFICATIONS	AcuCT-H040 Series	AcuCT-H100 Series	AcuCT-075 Series	AcuCT-125 Series	AcuCT-200 Series	AcuCT-075R Series	AcuCT-100R Series	AcuCT-125R Series	AcuCT-200R Series	AcuCT-3135R Series	AcuCT-4161R Series	AcuCT-5170R Series	S77 Series	RCT16 Series	RCT24 Series	RCT36 Series	RCT47 Series
			Stocked Product	•	•	•	•	•									•	•
CT Style	Solid Core													•				
	Hinged Split Core	•	•															
	Split Core			•	•	•	•	•	•	•	•	•	•					
	Rope/Rogowski Coil														•	•	•	•
Max. Voltage	600 VAC Line-Line max.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aperture (Hole Size)	0.400"	•																
	0.750"			•			•							•				
	1.000"		•					•										
	1.125"				•				•									
	2.000"					•				•								
	3.1" x 3.5"										•							
	4.17"														•			
	4.1" x 6.1"												•					
	5.1" x 7.0"													•				
	7.01"												•			•		
10.67"																•		
14.53"																	•	
Accuracy	0.15 Class													•				
	0.5% (10 to 120%)	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
	0.5s Class						•	•	•	•	•	•	•					
	Meet Standard IEC 60044-1			•	•	•	•	•	•	•	•	•	•	•				
Agency Approvals	UL Listed 2808						•	•	•	•	•	•	•	•				
	UL 61010-1						•	•	•	•	•	•	•	•				
	CSA 22.2						•	•	•	•	•	•	•	•				
	UL Recognized (cURus)	•	•	•	•	•									•	•	•	•
Amperage Ranges Available in Series	5 Amps																	
	20 A	•																
	30 A	•																
	40 A	•																
	50 A	•		•			•											
	60 A	•																
	100 A		•	•			•	•	•					•				
	150 A						•											
	200 A		•		•			•	•					•				
	250 A							•										
	300 A				•					•								
	400 A				•					•	•							
	600 A				•	•				•	•							
	800 A					•				•	•							
	1000 A										•							
	1200 A														•	•	•	
	2000 A												•					
2500 A														•	•	•	•	
3000 A															•	•	•	
4000 A													•					
5000 A															•	•	•	
6000 A																•	•	
Lead Length Available	1 foot													•				
	2 meters (6.5 ft)														•	•	•	•
	2.5 meters (8 ft)	•	•	•	•	•	•	•	•	•	•	•	•					
	10 meters (32.5 ft)	•	•		•													



ACUCT-H040/100 SERIES

Hinged Split Core, Standard Accuracy

- Aperture window sizes: 0.4" (H040), 1.0" (H100)
- Amp ranges: 20, 30, 40, 50, 60 amps (H040); 100, 200 amps (H100)
- 8 foot (2.5 meter) leads



ACUCT-075 SERIES

Split Core, Standard Accuracy

- Aperture size: 0.75"
- Amp ranges: 50, 100 amps
- 8 foot (2.5 meter) leads



ACUCT-S77 SERIES

Solid Core, High Accuracy, Measurement Canada Approved

- Aperture size: 0.78"
- Amp ranges: 100, 200 amps
- 1 foot (30.5 cm)



ACUCT-XXXR SERIES

Split Core, High Accuracy

- Aperture window sizes: see Product Selection Guide (page 5)
- Amp ranges: 50 to 4000 amps available



RCT SERIES

Flexible Rogowski Coil, Standard Accuracy

- Aperture windows sizes: see Product Selection Guide (page 5)
- Amp ranges: 1000 to 6000 amps available



KW350-ENC

KW350 Series Enclosure

- NEMA 4X polycarbonate enclosure
- DIN rail mounting hardware
- Multiple locking options
- Swing panel included



KW1850-ENC

KW1850 Series Enclosure

- NEMA 4X polycarbonate enclosure
- DIN rail mounting hardware
- Multiple locking options
- Swing panel included



SO-SP1

Snap On CT Connector Kit (Qty:20)

- Plugs directly into meter in seconds
- Reduces polarity errors



AXM-DIN

KW320 Series DIN Rail Mounting Adapter

- Provides easy panel installation



USB-RS485

RS485 to USB Converter

- Programming cable for meter setup/programming



WE HAVE YOU COVERED!



From engineering and design services to installation and troubleshooting, our Technical Support Team offers expert support for every customer and every application. Our Sales and Customer Support Teams can help with quotes, order status, invoicing, and many product spec and application questions.

CONTACT US

Phone: 1-888-WORKACI (967-5224)

Live Chat: Click the Chat button on every page of our website: workaci.com

Tech Support Email: techsupport@workaci.com

Customer Support Email: orders@workaci.com

Hours: 7:00 a.m. to 5:30 p.m. Central, Monday – Friday



STAY CONNECTED

workaci.com | 1-888-967-5224 | 2305 Pleasant View Rd., Middleton, WI