

Meter Selection Guide



General	Key Features	iMeter 5	iMeter 6	iMeter 7A	iMeter 8	iMeter D7
	Class (kWh)	0.2S	0.2S	0.2S	0.2S	0.2S
	Dimensions (WxHxD/mm)	 96x96x85	 96x96x119.5	 144x144x128	 192x192x182.4	 145x124x77
	Display (Backlit)	Color IPS 320x240 (Backlit)	Color IPS 320x240 (Backlit)	Color TFT 800x480 (Backlit)	Color TFT 800x480 (Backlit)	Color IPS 320x240 (Backlit)
	True RMS Sampling Rate	512	256	1024	1024	1024
	Battery-backed Real-time Clock	✓	✓	✓	✓	✓
	Operating Temperature (°C)	-25 to 70	-25 to 70	-25 to 70	-25 to 70	-25 to 70
Communications	Protocol	Modbus RTU, Modbus TCP, HTTP/HTTPS, NTP, SMTP, SNMP, FTP/FTPS, RSTP, MQTT, BACnet/IP, IEC61850, IEC60870-5-104	Modbus RTU, Modbus TCP, HTTP/HTTPS, SNTP, SMTPS, FTPS, SNMP, Ethernet Gateway, BACnet/IP, IEC61850	Modbus RTU, Modbus TCP, HTTPS, NTP, SMTPS, SNMP, FTPS, Ethernet Gateway, MQTT, IPsec VPN and IEC61850, IEEE1588 (PTP)	Modbus RTU, Modbus TCP, HTTPS, SNTP, SMTPS, FTP, Ethernet Gateway, IEC61850, IEEE1588 (PTP)	Modbus RTU, Modbus TCP, HTTPS, NTP, SMTPS, FTPS, MQTT, IPsec VPN, Ethernet Gateway, IEC61850, IEEE1588 (PTP)
	RS-485 Port	1	1	1	2	1
	Ethernet port	2	1	2	2	2
	Web Server	✓	✓	✓	✓	✓
I/O	Digital Input (DI)	4	6	4 (8 Opt.)	8 (16 Opt.)	4
	Pulse Counter	✓	✓	✓	✓	✓
	Mechanical Digital Output (DO)/ Solid State Output (SS)	2DO or (2 Opt.)SS	3DO	3DO (Opt. 1DO +2SS or Opt. 5DO)	4DO+4SS (Opt. 8DO +4SS or 4DO+2SS)	3DO or (3 Opt.)SS
	Analog Input (AI), 0/4-20mA	-	(1 Opt.)	(2 Opt.)	(2 Opt.)	(2 Opt.)
	Analog Output (AO), 0/4-20mA	-	-	-	(1 or 2 Opt.)	-
	kWh & kvarh Pulse Output (LED)	✓	✓	✓	✓	✓
	kWh & kvarh Pulse Output	(2 Opt.)	-	2	4 (2 Opt.)	3
Measurements	IRIG-B (GPS)	✓	✓	✓	✓	✓
	ULN per Phase & Avg.	✓	✓	✓	✓	✓
	ULL per Phase & Avg.	✓	✓	✓	✓	✓
	Current per Phase & Avg.	✓	✓	✓	✓	✓
	Neutral Current (Meas./Calc.)	✓	✓	✓	✓	✓
	Frequency	✓	✓	✓	✓	✓
	kW per Phase & Total	✓	✓	✓	✓	✓
	kvar per Phase & Total	✓	✓	✓	✓	✓
	kVA per Phase & Total	✓	✓	✓	✓	✓
	PF per Phase & Total	✓	✓	✓	✓	✓
	kWh Import/Export	✓	✓	✓	✓	✓
	kvarh Import/Export	✓	✓	✓	✓	✓
	kVAh Total	✓	✓	✓	✓	✓
	Demands & TOU	✓	✓	✓	✓	✓
Power Quality	Maximum Demand	✓	✓	✓	✓	✓
	Setpoints	✓	✓	✓	✓	✓
	THD Voltage & Current	✓	✓	✓	✓	✓
	TOHD Voltage & Current	✓	✓	✓	✓	✓
	TEHD Voltage & Current	✓	✓	✓	✓	✓
	K-Factor	✓	✓	✓	✓	✓
	Individual Harmonics	2 nd - 63 rd	2 nd - 63 rd	2 nd - 63 rd	2 nd - 63 rd	2 nd - 63 rd
	Voltage/Current Unbalance	✓	✓	✓	✓	✓
	Waveform Capture on Screen	✓	✓	✓	✓	✓
	Waveform Recording	✓	✓	✓	✓	✓
	Dip Swell Detection	✓	✓	✓	✓	✓
Logs	Transient Detection	✓	✓	✓	✓	✓
	IEC61000-4-30	Ed. 3.1 Class S/A Compliant	Ed. 3 Class S Compliant	Ed. 3.1 Class A Certified	Ed. 3.1 Class A Certified	Ed. 3 Class A Certified
	2-150kHz Conducted Emission	2-9kHz only	-	Compliant	Compliant	Compliant
Logs	SOE Log	512 entries	512 entries	1024 entries	1024 entries	1024 entries
	PQ Log	✓	✓	✓	✓	✓
	Energy Log	✓	✓	✓	✓	✓
	Max./Min. Log	✓	✓	✓	✓	✓
	On-board Log Memory	(4GB Opt.)	2GB	4GB	8GB	4GB

Legend: (Opt.)-Optional (Via Comm.)-Via Communication (Meas./Calc.)-Measured Value/Calculated Value (Dmd.)-Demand

General	Key Features	PMC-53A-E	PMC-53A	PMC-53M-A	PMC-S963-E	PMC-S963-C	PMC-D726M	PMC-592	PMC-512-A
	Class (kWh)	0.5S	0.5S	0.5S	0.5S	0.5S	1	0.5S	1
	Dimensions (WxHxD/mm)	 96x96x88	 96x96x88	 96x96x88	 96x96x92	 96x96x92	 72x72x76.8	 260.5x154x55.5	 126x90x65
	Display (Backlit)	Dot-Matrix LCD (Backlit)	Dot-Matrix LCD (Backlit)	B&W (Backlit)	B&W (Backlit)	B&W (Backlit)	B&W (Backlit)/LED	Optional Color TFT 800x480 (Backlit)	B&W (Backlit)
	True RMS Sampling Rate	64	64	64	64	64	64	64	64
	Battery-backed Real-time Clock	√	√	√	√	√	-	√	√
	Operating Temperature (°C)	-25 to 70	-25 to 70	-25 to 70	-25 to 70	-25 to 70	-25 to 70	-25 to 70	-25 to 70
Communications	Protocol	Modbus RTU, Modbus TCP, HTTP, BACnet MS/TP, DNP 3.0, Ethernet Gateway, SNTP, SMTP, TFTP	Modbus RTU, BACnet MS/TP, Metasys N2 and DNP3.0	Modbus RTU	Modbus RTU, Modbus TCP, SNTP	Modbus RTU	Modbus RTU	Modbus RTU, Modbus TCP, SNMP, SNTP, SMTP, HTTP	Modbus RTU
	RS-485 Port	1	1 + (1 Opt.)	1	1	1	1	2	2
	Ethernet port	1	-	-	1	-	-	1	-
	Web Server	√	-	-	-	-	-	√	-
I/O	Digital Input (DI)	4	(6 Opt.)	(4 Opt.)	4	4	(2 Opt.)	2	12
	Pulse Counter	√	√	√	-	-	-	√	√
	Mechanical Digital Output (DO)/ Solid State Output (SS)	2DO or (2 Opt.)SS	(4 Opt.)DO or (4 Opt.)SS	(2 Opt.)DO	2×DO+1×SS	(2 Opt.)DO or (1 Opt.)SS	(2 Opt.)DO	2DO	1DO
	Analog Input (AI), 0/4-20mA	(1 Opt.)	(1 Opt.)	-	-	-	-	-	-
	Analog Output (AO), 0/4-20mA	-	(1 Opt.)	-	-	(1 Opt.)	(1 Opt.)	-	-
	kWh & kvarh Pulse Output (LED)	√	√	√	√	√	√	√	√
	kWh & kvarh Pulse Output	(2 Opt.)	(4 Opt.)	-	1	1	-	-	-
Measurements	IRIG-B (GPS)	-	-	-	-	-	-	-	-
	ULN per Phase & Avg.	√	√	√	√	√	√	√	√
	ULL per Phase & Avg.	√	√	√	√	√	√	√	√
	Current per Phase & Avg.	√	√	√	√	√	√	√	√
	Neutral Current (Meas./Calc.)	√	√	(Calc.)	(Calc.)	(Calc.)	(Calc.)	Meas.	√
	Frequency	√	√	√	√	√	√	√	√
	kW per Phase & Total	√	√	√	√	√	√	√	√
	kvar per Phase & Total	√	√	√	√	√	√	√	√
	kVA per Phase & Total	√	√	√	√	√	√	√	√
	PF per Phase & Total	√	√	√	√	√	√	√	√
	kWh Import/Export	√	√	√	√	√	√	√	√
	kvarh Import/Export	√	√	√	√	√	√	√	√
	kVAh Total	√	√	√	√	√	√	√	√
	Demands & TOU	√	√	Dmd. Only	√	√	√	√	Dmd. Only
	Maximum Demand	√	√	√	√	√	√	√	√
	Setpoints	√	√	√	√	√	√	√	√
Power Quality	THD Voltage & Current	√	√	√	√	√	√	√	√
	TOHD Voltage & Current	√	√	√	√	√	√	√	√
	TEHD Voltage & Current	√	√	√	√	√	√	√	√
	K-Factor	√	√	√	-	-	√	√	√
	Individual Harmonics	2 nd - 31 st	2 nd - 31 st	2 nd - 31 st	2 nd - 31 st	2 nd - 31 st	2 nd - 31 st	2 nd - 31 st	2 nd - 31 st
	Voltage/Current Unbalance	√	√	√	√	√	√	√	√
	Waveform Capture on Screen	√	√	-	-	-	-	-	-
	Waveform Recording	-	-	-	-	-	-	√	-
	Dip Swell Detection	-	-	-	-	-	-	√	-
	Transient Detection	-	-	-	-	-	-	-	-
	IEC61000-4-30	-	-	-	-	-	-	-	-
	2-150kHz Conducted Emission	-	-	-	-	-	-	-	-
Logs	SOE Log	100 entries	100 entries	100 entries	32 entries	32 entries	16 entries	1000 entries	512 entries
	PQ Log	-	-	-	-	-	-	-	-
	Energy Log	√	√	-	√	√	-	√	√
	Max./Min. Log	√	√	√	√	√	-	√	-
	On-board Log Memory	8MB	(4MB Opt.)	-	-	-	-	1GB	4MB

Legend: (Opt.)-Optional (Via Comm.)-Via Communication (Meas./Calc.)-Measured Value/Calculated Value (Dmd.)-Demand

Key Features		PMC-220	PMC-220-A6	PMC-230	PMC-340	PMC-340-A6	PMC-350-C	PMC-352-C
General	Class (kWh)	0.5	1	1	0.5 for 100A Direct Connected Input, 0.5S for 5A CT Input	0.5 for 100A Direct Connected Input, Class 0.5S for 5A CT Input	1	1
	Dimensions (WxHxD/mm)	 36x90x65	 36x95x70	 72x90x68	 126x90x65	 72x95x70	  72x95x70	  36x90x65
	Display (Backlit)	B&W (Backlit)	B&W (Backlit)	B&W (No Backlit)	B&W (No Backlit)	B&W (Backlit)	B&W (No Backlit)	-
	True RMS Sampling Rate	36	114	36	64	160	64	64
	Battery-backed Real-time Clock	-	√	√	√	√	√	-
	Voltage Input	95-264VAC	85-276VAC	95-264VAC	168-264VAC	88-276VAC	20-277V L-N/35-480V L-L	277VLN/480VLL 40V to 1.2Un
	Current Input (In/Imax)	5A/63A	5A/80A	5A/65A	20A/100A (Direct Connected Input) 5A/6A (CT Input)	10A/100A (Direct Connected Input) 1A/10A (CT Input)	5A/6A (CT Input), optional SCCT Input with 40mA or 2mA secondary	SCCT Input with 40mA or 2mA secondary
	Operating Temperature (°C)	-25 to 70	-25 to 70	-25 to 70	-25 to 70	-25 to 70	-25 to 70	-25 to 70
Communications	Protocol	Modbus RTU	Modbus RTU	Modbus RTU	Modbus RTU	Modbus RTU	Modbus RTU (Optional LoRaWAN support at RU864/IN865/EU868/AU915/KR920/AS923-1/AS923-2/AS923-3/AS923-4	Modbus RTU (Built-in LoRa with configurable ISM Bands for EU863-870, RU864-870, IN865-867, US902-928, AU915-928, AS920-923 and AS923-925)
	RS-485 Port	1	1	1	1	1	1	1
	Ethernet port	-	-	-	-	-	-	-
	Web Server	-	-	-	-	-	-	-
	3-Level Comm. Password	-	√	√	-	√	-	-
I/O	Digital Input (DI)	-	1 Opt.	3	(3 Opt.)	1 (Opt. for Direct Connected Input)	(4 Opt.)	3
	Pulse Counter	-	√	√	√	√	√	√
	Mechanical Digital Output (DO)/ Solid State Output (SS)	1SS	1SS Opt.	1SS	1SS	1 SS (Opt. for Direct Connected Input)	(2 Opt.)DO or (2 Opt.)SS	-
	Analog Input (AI), 0/4-20mA	-	-	-	-	-	-	-
	Analog Output (AO), 0/4-20mA	-	-	-	-	-	-	-
	kWh & kvarh Pulse Output (LED)	√	√	√	√	√	√	-
	kWh & kvarh Pulse Output	1	1 Opt.	1	1	1 Opt.	2	-
	IRIG-B (GPS)	-	-	-	-	-	-	-
Measurements	ULN per Phase & Avg.	1 phase only	1 phase only	1 phase only	√	√	√	√
	ULL per Phase & Avg.	-	-	-	√	√	√	√
	Current per Phase & Avg.	1 phase only	1 phase only	1 phase only	√	√	√	√
	Neutral Current (Meas./Calc.)	-	-	-	(Calc.)	(Calc.)	(Calc.)	-
	Frequency	√	√	√	√	√	√	√
	kW per Phase & Total	1 phase only	1 phase only	1 phase only	√	√	√	√
	kvar per Phase & Total	1 phase only	1 phase only	1 phase only	√	√	√	√
	kVA per Phase & Total	1 phase only	1 phase only	1 phase only	√	√	√	√
	PF per Phase & Total	1 phase only	1 phase only	1 phase only	√	√	√	√
	kWh Import/Export	√	√	√	√	√	√	√
	kvarh Import/Export	√	√	√	√	√	√	√
	kVAh Total	√	√	√	√	√	√	√
	Demands & TOU	-	√	√	√	√	√	Dmd. Only
	Maximum Demand	-	√	√	√	√	√	-
	Setpoints	-	√	√	-	√	√	√
Power Quality	THD Voltage & Current	-	-	√	√	√	√	√
	TOHD Voltage & Current	-	-	-	√	√	√	√
	TEHD Voltage & Current	-	-	-	√	√	√	√
	K-Factor	-	-	-	√	√	√	-
	Individual Harmonics	-	-	-	2 nd - 31 st	2 nd - 31 st	2 nd - 31 st	2 nd - 31 st
	Voltage/Current Unbalance	-	-	-	√	√	√	√
Logs	SOE Log	-	128 entries	64 entries	16 entries (Opt.)	128 entries	100 entries	16 entries
	Energy Log	-	√	√	√	√	√	-
	Max./Min. Log	-	-	-	√	√	√	-
	On-board Log Memory	-	16MB Opt.	4MB	(2MB Opt.)	16MB	4MB	8KB
	Data Recorder Log	-	2x65535 entires (Opt.)	√	√	√	√	-

Legend: (Opt.)-Optional (Via Comm.)-Via Communication (Meas./Calc.)-Measured Value/Calculated Value (Dmd.)-Demand

Key Features		PMC-1202	PMC-1302-3 (N & 7)	PMC-1302-3 (T)	iSmartGate SE	PMC-1304-3
General	Dimensions (WxHxD/mm)	 36x65x90	 72x90x61	 72x90x61	 36x65x90	 63x145x115
	Display (Backlit)	-	-	-	-	-
	Memory	4MB	16MB	16MB	8GB	2GB
	Built-in Web Interface	√	√	√	√	√
	Power Supply	95-250VAC/DC ± 10% or 12-36V DC	95-250VAC/DC ± 10% or 20-60VDC	95-250VAC/DC ± 10% or 20-60VDC	95-250VAC/DC ± 10% or 12-36V DC	95-250VAC/DC ± 10% or 20-60VDC Single PS or 20-60VDC Dual PS
	LED Indicator	5 Indicators 1 for Running Status 1 for Ethernet Comm. Status 1 for LoRa Comm. Status 2 for RS-485 Comm. Status	4 Indicators 1 for Running Status 1 for LoRa Comm. Status 2 for RS-485 Comm. Status	4 Indicators 1 for Running Status 1 for LoRa Comm. Status 2 for RS-485 Comm. Status	6 Indicators 1 for Running Status 2 for RS-485 Comm. Status 1 for 4G Comm. Status 1 for Ethernet Comm. Status 1 for LoRa Comm. Status	6 Indicators 1 for Running Status 1 for Alarm Status 2 or 4 for RS-485 Comm. Status
	Time Sync.	Modbus	Modbus	Modbus, RTC	SNTP, Modbus, RTC	SNTP, Modbus, optional GPS or IRIG-B
Type	Transparent Gateway	√	√	√	√	-
	Modbus TCP/RTU Gateway	√	√	√	√	√
	Protocol Gateway	-	-	√	√	√
	Multi Master	√	√	√	√	√
Ethernet Interface	10/100BaseT Port (RJ45 Connector)	1	1	1	1	2
	100/1000BaseX Fiber-optic port	-	-	-	-	-
	Isolation Protection	1.5kV	1.5kV	2kV	1.5kV	1.5kV
	Protocol	Modbus TCP Client/Server, UDP Client/Server, HTTP, WebSocket and HTTPD Client	Modbus TCP Client/Server, UDP Client/Server, HTTP	Modbus TCP Client/Server, UDP Client/Server, HTTP	Modbus TCP Client/Server, IEC 104 Client/Server, DHCP, Anypolling, MQTT+JSON, HTTP+JSON, AliCloud, Amazon AWS (4G), Optional BACnet/IP	Modbus TCP Client/Server, SFTP Client Support, HTTP
Serial Interface	RS-485 Port	2	2	2	2	2 or 4 (including 1xRS-422/RS-485)
	RS-232 Port	-	-	-	-	-
	Baudrate	600/1200/2400/4800/9600/ 19200/38400 bps	300/600/1200/2400/ 4800/9600/19200/38400bps	300/600/1200/2400/ 4800/9600/19200/38400bps	300/600/1200/2400/ 4800/9600/19200/38400bps	300/600/1200/2400/4800/9600/ 19200/38400/57600/115200 bps
	Isolation Protection	3kV	3kV	3kV	3kV	3kV
	Protocol	Modbus RTU	Modbus RTU	Modbus RTU	Modbus RTU, MQTT Client	Modbus RTU
Wireless Interface	4G	-	-	-	√	-
	LoRa	√	√	√	√	-
	Band Options	Configurable ISM Bands for EU863-870, RU864-870, IN865-867, US902-928, AU915-928, AS920-923 and AS923-925	Configurable ISM Bands for EU863-870, RU864-870, IN865-867, US902-928, AU915-928, AS920-923 and AS923-925	Configurable ISM Bands for EU863-870, RU864-870, IN865-867, US902-928, AU915-928, AS920-923 and AS923-925	Configurable ISM Bands for EU863-870, RU864-870, IN865-867, US902-928, AU915-928, AS920-923 and AS923-925	-
	Protocol	Modbus RTU Client/Server	Modbus RTU Client/Server	Auto-push private protocol for working with LoRa Temp. Sensors (PMC-2601 & 2603)	Modbus RTU Client/Server (LoRa) MQTT+JSON, HTTP+JSON, AliCloud, Amazon AWS (4G)	-
Logs	Data Recorder Logs	-	-	√	√	√
	SOE Logs	-	-	√	√	√
	Device Logs	-	-	-	√	-
Input/Output	DI	-	-	-	-	-
	DO	-	-	-	-	-
	AI	-	-	-	-	-
Environmental & Mechanical	Installation	DIN Rail	DIN Rail	DIN Rail	DIN Rail	DIN Rail or Panel Mounting
	Operating Temperature	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C
	Humidity	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing



Our Services

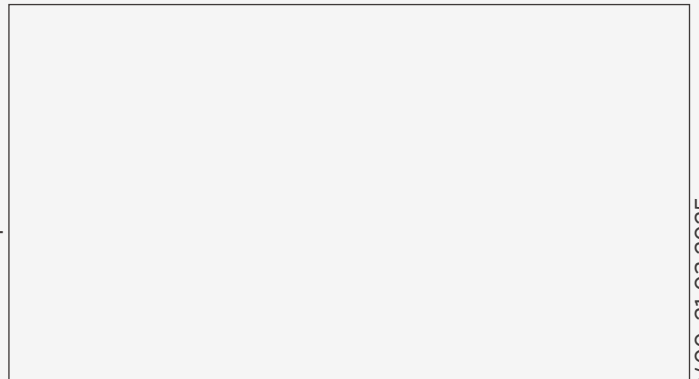
CET has a team of dedicated and proficient Engineering Services personnel who are ready to provide expert assistance for your system deployment needs. We are committed to helping our customers create a more secure and reliable, energy conserving and environmentally friendly electrical power system. Our team of experts is prepared to provide customized solutions for your different application needs with timely and efficient services.

Please do not hesitate to contact our sales office or your local representative for more information.

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Your Local Representative



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