

Meter 5 Power Quality Analyzer

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EET

ITIC CURVE





iMeter 5 is one of CET's latest Advanced Modular PQ Analyzer designed for the compliance monitoring market as it offers unsurpassed functionality by combining Class 0.2S Accuracy and advanced PQ Features in an industry-standard compact DIN96 form factor with a stunning, high resolution, color IPS LCD display and highly sensitive touch buttons. The iMeter 5 complies with such standards as IEC 62053-22: 2020 Class 0.2S, IEC 62052-31: 2015, IEC 61000-4-30 Ed. 3.1 Class S / Class A Compliant, IEC 61000-4-15, IEC 61000-4-7, EN 50160, IEEE Std 519-2022. Furthermore, the iMeter 5 offers up to 4GB memory, 4xDI, 2xDO, dual 10/100BaseT Daisy Chain Ethernet ports, an RS-485 port and an RJ45 port for modular I/O expansion. It can be easily integrated into Building Management Systems, Power Quality Monitoring Systems as well as Substation Automation Systems with Modbus TCP/RTU, BACnet/IP, SNMP, IEC 61850, IEC 60870-5-104 and other protocols. These features make the iMeter 5 a vital component of various systems for different applications.

	Class 0.2S Revenue Metering
	 PQ monitoring for Mains and Critical Feeders
Typical	HV, MV and LV Applications
	• Data Centers, Semiconductor Fabs, Heavy Industries, Renewable Energy
Applications	 7x24 Automated Manufacturing Facilities
	IEC 61850 support for Substation Automation and Smart Grid
	Retrofit Applications with optional Class 1 Split-Core Current Probes

Basic Features

- IEC 62053-22 Class 0.2S kWh metering with Multi-Tariff TOU
- True RMS @ 512 samples/cycle sampling
- 512MB (Classic Model), 2GB (Class S Model) or 4GB (Class A Model) on-board log memory
- Industrial-grade, 3.5" High-Resolution Color IPS LCD @ 320x240
- Device Operating Time (Running Hours)
- Time Sync. via NTP, IRIG-B, or GPS 1PPS output
- 32 Programmable Setpoints
- Dual 10/100BaseT Daisy Chain Ethernet and 1xRS-485 ports as well as 1xRJ45 port for modular I/O expansion

Display & Web Interface

- True RMS Real-time, Harmonics, Power and Energy Measurements
- Phasor Diagram, Harmonics & Interharmonics Histogram
- Real-time WFC of 3-phase U & I @ 128 samples/cycle x 4 cycles
- Event WF Display @ max. 512 samples/cycle & ITIC/SEMI F47 Curves
- Trend Curves for Daily/Monthly Energy Consumption, DR, SDR, AER/IER and RMS Recording Logs
- Max. & Min. Logs
- Deviation, Sequence Components & Unbalance
- Demands and Multi-Tariff TOU
- Device and SOE Logs, PQ Counters and I/O Status
- Device Configuration and Diagnostics

Multi-Tariff TOU Capability

- Two independent sets of TOU Schedule
 - Up to 12 Seasons
 - 90 Holidays or Alternate Days and 3 Weekdays
 - 20 Daily Profiles, each with 12 Periods in 0-60min programmable intervals
 - 8 Tariffs, each providing the following information:
 - kWh/kvarh Import/Export and kVAh
 - P & Q Import/Export Max. Demands
 - Register rollover at 100,000,000,000.000 kXh
- Switching between two TOU schedules manually or according to pre-programmed time
- 12 Historical Logs for Energy and Max. Demand

Power Quality Features

- Optional IEC 61000-4-30 Ed. 3.1 Class S/Class A compliant
- EN 50160 and IEEE Std 519-2022 Reporting
- Dips, Swells, Interruptions, Transients, Rapid Voltage Change, Inrush Current, Mains Signalling Voltage and Flicker monitoring
- Real-time Waveform Capture (WFC), Waveform Recording (WFR) & Disturbance Waveform Recording (DWR) in COMTRADE File format
- Disturbance Direction Indicator for Dips, Swells and Interruptions
- Statistical Data Recording and ½ cycle RMS Recording

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Advanced Modular

Power Quality Metering

PQ Parameters as per IEC 61000-4-30 Ed. 3.1 Class S/Class A Compliant

- Power Frequency
- Magnitude of the Supply Voltage
- Flicker
- Supply Voltage Interruptions, Dips and Swells
- Supply Voltage and Current Unbalance
- Voltage and Current Harmonics and Interharmonics
- Mains Signalling Voltage on the Supply Voltage
- Rapid Voltage Change
- Measurement of Over Deviation and Under Deviation Parameters
- Magnitude of Current
- Current Harmonics and Interharmonics
- Current Unbalance
- 2kHz to 9kHz Conducted Emission Measurements Harmonic and Interharmonic Measurements
- U and I THD, TOHD, TEHD, TIHD, TOIHD, TEIHD and TH (RMS)
- Current TDD, TDD Odd and TDD Even
- U and I Individual Harmonics (%HD and RMS) from 2nd to 63^{rd #}
- K-Factor for Current, Crest Factor for Current and Voltage
- U and I Individual Interharmonics (%IHD and RMS) from $1^{\rm st}$ to $63^{\rm rd\#}$
- Fundamental U, I, P, Q, S Phase Angle and Displacement PF
- Harmonic Phase Angle from 2nd to 63rd
- U and I DC Components

 $^{\#}\mbox{MHD}$ and \mbox{MHD} can be configured as % of Fundamental, % of U/I nominal or % of RMS

Sequence and Unbalance

- Zero, Positive and Negative Sequence Components
- U and I Unbalance based on Zero and Negative Sequence Components **Dips, Swells, Interruptions Recording**
- Dips, Swells and Interruptions detection @ 10ms (½ cycle at 50Hz)
- Trigger for DO, SOE Log, DR, WFR, DWR, RMSR, iTrigger and Alarm Email
- Configurable DO trigger for the Start or End of a PQ disturbance
- Display of Event specific WFR, DWR and/or RMSR as well as the associated ITIC/SEMI F47 plot on the Front Panel and Web Interface
- ITIC/SEMI F47 Alarm trigger for DO and iTrigger upon the detection of PQ disturbances that are outside of the respective tolerance curves **Transients Recording**
- Transients capture as short as 40us for sub-cycle disturbances such as capacitor switching and resonance phenomena
- Trigger for DO, SOE Log, WFR, DWR, RMSR, iTrigger and Alarm Email
- Display of Event specific WFR, DWR and/or RMSR on the Front Panel and Web Interface

Rapid Voltage Change (RVC)

 Detection of a quick transition in RMS Voltage between two steady-states

Inrush Current Monitoring

C

 Monitoring of the ½ cycle RMS Current and capturing of the Current waveforms associated with events such as motor starting and transformer being energized

Disturbance Direction Indicator

- Determine if a PQ Event is located upstream or downstream
- Pinpoint if the cause of the event is external or internal

PQ Event Counters

• Dips, Swells, Interruptions, Transients, Rapid Voltage Change, Inrush Currents, Mains Signalling Voltages and Total PQ Event Counters

Metering

Basic Measurements (1-second update)

• 3-phase U, I, P, Q, S and PF as well as I4 (Measured Neutral Current), In (Calculated Neutral Current), Ung (Neutral-to-Ground Voltage), Frequency and IR (Calculated Residual Current)

High-Speed Measurements

- 3-phase U, I, P, Q, S and PF as well as I4 @ $^{1\!\!/}_{2}$ cycle
- Frequency @1 cycle

Energy

- Per-phase kWh, kvarh Import/Export/Net/Total and kVAh Total
- Total RMS kWh, kvarh Import/Export/Net/Total and kVAh Total
- Total Fundamental kWh, kvarh Import/Export/Net/Total
- Total Harmonic kWh, kvarh Import/Export/Net/Total and Harmonic kWh, kvarh Import/Export from 2nd to 63rd

Demands

- Present and Predicted Demand for 3-phase U, U Avg., I, I Avg., I Fund., P, Q, S, PF as well as I4, I4 Fund.
- Max. Demands for 3-phase I, I Fund., UII & I Avg., as well as Power of This Month & Last Month (or Since Last Reset & Before Last Reset)
- Demand Synchronization with DI
- Max./Min. per Demand Interval

Data and Event Recorders

Non-Volatile Log Memory

• Up to 4GB on-board Log memory

SOE Log

- 512 FIFO events time-stamped to ±1ms resolution
- Setpoint event, I/O operation, Dip, Swell, Interruption, Transient, Rapid Voltage Change, Inrush Current, Mains Signalling Voltage, iTrigger, etc.
- Record the characteristic data for Setpoint events as well as WFR, DWR, RMSR, ITIC and SEMI F47 Curve for PQ events

Device Log

- 512 FIFO entries time-stamped to ±1ms resolution
- Power On/Off, Setup changes, Time Sync., Device Operations and Self-diagnostics

Statistical Data Recorder (SDR)

- 4 SDR Logs of max. 64 parameters each
- Recording of the Max., Min., Avg. and 95th percentile values for real-time measurements including U, I, P, Q, S, PF, Freq., Harmonics, Deviations and Unbalances
- Recording Interval from 1 to 60 minutes
- Configurable depths for recording up to 450 days at 15-min interval
- Downloadable via free software
- Support FIFO or Stop-When-Full mode

Max./Min. Recorder (MMR)

• 4 Max./Min. Recorders of 20 parameters each

Auto: Max./Min. of This Month & Last Month

- RMS/Fundamental/Harmonic/Interharmonic Measurements, Demands, Deviations, Unbalances and Flicker
- Two transfer modes:

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Manual: Max./Min. Since Last Reset & Before Last Reset

Power Quality Analyzer



Trend Curve for DR, SDR, IER and AER

- Trend display of recorded DR, SDR, IER and AER logs at selectable interval via built-in web interface
- Ability to export the logs in tabular form

Data Recorder (DR)

- 8 DR Logs of max. 32 parameters each
- RMS/Fundamental/Harmonic/Interharmonic Measurements, Demands, Deviations, MSV, Unbalances and Flicker
- Configurable Recording Offset and Interval from 1s to 40 days
- Configurable Recording Depth with Max. @ 120,000 records
- Support FIFO or Stop-When-Full mode
- BEC 2021 Compliant Data Recording for 3 years at 15-minute interval

Interval Energy Recorder (IER) and Accumulative Energy Recorder (AER)

- Both IER Log and AER Log support the recording of Per-phase and Total RMS kWh, kvarh Import/Export/Total/Net and kVAh Total, Total Fundamental and Total Harmonic kWh, kvarh Import/Export
- Recording Interval from 1 minute to 65535 minutes
- Max. Recording Depth @ 65535 records records for each group
- Support FIFO and Stop-When-Full mode

Daily/Monthly Energy Consumption Trend Curve

- 36 Monthly and 31 Daily Energy Consumption Trend Display for kWh, kvarh Import/Export and kVAh Total on Front Panel and Web Interface
- Ability to export the Energy Log in tabular form via the web interface
- FIFO Recording Mode

Disturbance Waveform Recorder (DWR)

- 128 entries
- Simultaneous recording of all Voltage (U1-U3) and Current (I1-I4) Inputs
 Initial Fault: 35 cycles @ 512 samples/cycle
 - Extended Fault: Up to 150 cycles @ 16 samples/cycle
 - Steady State: Up to 360s of 1-cycle absolute peak values
 - Post Fault: 15 cycles @ 512 samples/cycle

Real-Time Waveform Capture (WFC) and Waveform Recorder (WFR)

- Real-time WF Capture @ 128 samples/cycle x 4 cycles
- WFR with max. 128 entries
- Simultaneous capture of 3-phase Voltage and 4-phase Current Inputs
- Programmable formats and pre-fault cycles including 640 x 16, 320 x 32, 160 x 64, 80 x 128, 40 x 256, 20 x 512 (No. of Cycles x Samples/Cycle)
- Scheduled WFR with max. repetition of 10,000 times and programmable schedule from 1 to 1440 minutes
- COMTRADE file format, downloadable from the on-board
 Web Server or FTPS Server

RMS Recorder (RMSR)

- 128 entries
- 8 channels max., selectable U, I, P, Q, S, PF, Frequency, Freq. Deviation
- Recording Interval from 0.5 to 60 cycles
- Recording Width @ 7200 samples per parameter
- Configurable pre-fault samples from 100 to 500
- 72 seconds of ½ cycle RMS recording @ 50Hz or 60 seconds @ 60Hz iTrigger
- Cross trigger DO, SOE Log, WFR, DWR, RMSR and Alarm Email with other iMeter devices within the same local area network (LAN)
- Group ID and MAC Address provided as the trigger source

IEEE Std 519-2022 Report

- 365 Daily Reports for statistical evaluations on Voltage and Current Harmonics based on 99th percentile very short time (3 s) values
- 52 Weekly Reports for statistical evaluations on Voltage Harmonics (95th percentile) and Current Harmonics (95th and 99th percentile) short time (10 min) values
- Programmable settings for Report Mode, PCC Voltage, Max. Short Circuit Current, etc.



Inputs and Outputs

Digital Inputs

- 4 channels, volts free dry contact, 24VDC internally wetted
- 1000Hz sampling for status monitoring with programmable debounce
- Pulse counting with programmable weight for each channel for collecting WAGES (Water, Air, Gas, Electricity, Steam) information
- Demand Synchronization
- Tariff switching based on DI status

Digital Outputs

- Standard 2 channels Form A Mechanical Relays for general purpose control and alarming
- Optional 2 SS Relays for Energy pulsing applications

Modular I/O Expansion

• RJ45 connector for modular I/O expansion such as AI, AO, DI, DO, Residual Current (Ir) and Temperature (TC) Inputs

Communications

Ethernet Port (P1, P2)

- Dual 10/100BaseT Daisy-Chain Ethernet Ports with RJ45 connector
- Selectable IP Addressing Mode-DHCP and Static
- White List for Client Access Control
- Protocols supported: Modbus TCP, HTTP/HTTPS, NTP, SMTP, SNMP, FTP/FTPS, RSTP, MQTT, BACnet/IP, IEC 61850 and IEC 60870-5-104
- Built-in password protected Web Server with multiple user accounts and pre-defined roles for easy data viewing, setup configuration and firmware upgrade
- Simultaneous client connections for 5xModbus TCP and 5xIEC 61850 **RS-485 (P3)**
- One optically isolated RS-485 port with Baud Rate from 1.2 to 38.4 kbps
- Support Modbus RTU, Ethernet Gateway and Modbus Master

Setpoints

PQ Setpoint

- Transients, Dips, Swells, Interruptions, ITIC Alarm, SEMI F47 Alarm, Rapid Voltage Change, Inrush Current
- Trigger DO, DR, SOE Log, WFR, DWR, RMSR, iTrigger and Alarm Email **Control Setpoint**
- 32 Control Setpoints can be configured with extensive monitoring sources including U, I, Freq., P, Q, S, PF, Demands, Harmonics, Unbalances, Deviations, Flickers, Phase Reversal/Loss, TC and Al, etc.
- Configurable thresholds and time delays
- Trigger DO, DR, SOE Log, WFR, DWR, RMSR, iTrigger and Alarm Email Digital Input Setpoint
- Provides Control Output Actions in response to changes in DI status
- Trigger DO, DR, SOE Log, WFR, DWR, RMSR, iTrigger and Alarm Email

Time Synchronization

- Battery-backed Real-time clock @ 6ppm (≤ 0.5s/day)
- Time Sync. with auto-selection among Modbus RTU, NTP, GPS 1PPS, and IRIG-B

System Integration

PecStar® iEMS

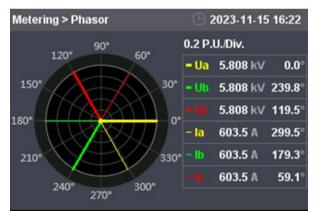
- The iMeter 5 is supported by CET's PecStar® iEMS
- The iMeter 5 can be easily integrated into other 3rd party systems because of its support of multiple communication ports as well as different industry standard protocols such as Modbus and IEC 61850

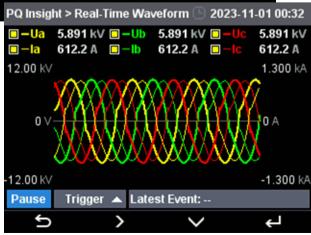
iPQ Explore

- Compact, password protected free software for simultaneous connection with multiple iMeter series Analyzers
- Support configurations for all Setup parameters
- Display of Real-time Measurements, PQ Events and Waveforms
- Ability to export the IER, AER, DR and SDR Logs as well as EN 50160 and IEEE Std 519-2022 Reports

3rd Party System Integration

- Easy integration into Substation Automation or Utility SCADA systems via Modbus RTU, Modbus TCP or IEC 61850
- The on-board, password protected Web Server provides user-friendly access to its data and supports the configuration for most Setup parameters via a web browser without the use of proprietary software
- The password-protected FTPS Server enables downloading of logged C.E. Measurement data, IEEE Std 519-2022 Daily and Weekly reports in Excel files and waveform records in COMTRADE files without special software





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Feature Differences

Factories (Maria)	Classic	Class S	Class A
Features/Model	(PQA)	(PQI-S)	(PQI-A)
Memory Size	512MB	2GB	4GB
IEC 61000-4-30 Compliant		Class S	Class A
Interharmonics			
Flicker (Pst, Plt)		•	•
Rapid Voltage Change			
Transient		•	-
Inrush Current			•
Mains Signalling Voltage			•
2kHz-9kHz C. E.			
Individual Harm. Energy			•
U & I DC Component			
EN 50160 Report		•	•
IEEE 519-2022 Report			
Statistical Data Recording		•	•
IEC 61850			•
GPS & IRIG-B Time Sync.		•	-
iTrigger			-
DWR			

-- Not Applicable Supported

Accuracy

Parameters	Accurac	cy 🛛	Resolution	
Voltage (U)		±0.1%	0.001V	
11, 12, 13, 14	5A/1A	±0.1%	0.001A	
11, 12, 13, 14	SCCPA	±0.1% +Error of SCCP	0.001A	
P. O. S	5A/1A	±0.2%	0.001K	
r, Q, S	SCCPA	±0.5%	0.0011	
kWh, kVAh	5A/1A	IEC 62053-22 Class 0.2S	0.1kXh	
KWII, KVAII	SCCPA	IEC 62053-21 Class 1	0.16/11	
kvarh	5A/1A	IEC 62053-24 Class 0.5S IEC 62053-23 Class 2	0.01kvarh	
KVAITI	SCCPA	IEC 62053-24 Class 1 IEC 62053-23 Class 2	0.01kvam	
PF	5A/1A	±0.2%	0.001	
	SCCPA	±0.5%	0.001	
Phase Angle		±1°	0.1°	
Frequency Freq. Deviation		±0.003Hz	0.001Hz	
Harmonics, Interharmonics	IEC	61000-4-7 Class I	0.01%	
U Unbalance		±0.1%	0.01%	
I Unbalance		±0.5%	0.01%	
Pst, Plt	IEC (61000-4-15 Class F1	0.001	

Technical Specifications

Voltage Inputs (V1, V2, V3, VN)								
Standard (Un)	400VLN/690VLL+20%							
Range	4-800 V L-N/7-1380 V L-L							
Overload		2xUn continuous, 4xUn for 1s						
Burden	< 0.5VA/per phase							
PT Ratio	Primary	1-1,000,000V						
FT RAUU	Secondary 1-1,500V							
Measurement Category		CAT III 600V						
Frequency	40Hz-72Hz							
Power Supply (L/+, N/-)								
Standard	95-277VAC/VDC ±10%, 47-440Hz							
Optional	20-60VDC							
Burden	< 14VA/10W @ 250VAC/DC, < 6W @ 24VDC							
Overvoltage Category	OVC III 300V							

Current Inputs (·I11,	12, •121, 122, •13				
Standard (In)	5A				
Optional (In)	1A				
Range	0.1% to 200% In				
Starting Current		0.1% In			
Overload		uous, 4xIn for 10s, 20xIn for 1s			
Burden		75VA/per phase @ 5A			
		.5VA/per phase @ 1A			
	Primary	1-30,000A			
CT Ratio	Secondary	1-50A			
	I4 Primary	1-30,000A 1-50A			
SCCP Options-	I4 Secondary				
Split-Core Current Probe		:Ps (50A, 200A, 500A) wski Coil (5000A max.)			
Input @ max. 500mV	Kugu	wski coli (5000A max.)			
Digital Inputs (DIC, I	עם צום צום ווע	()			
Standard		ict, 24VDC internally wetted			
Sampling	Dry conta	1000Hz			
Hysteresis		1000Hz			
nystelesis					
Digital Outputs (DO1	1, DO12, DO21,	D022)			
Туре	For	m A Mechanical Relay			
Loading	5 <i>A</i>	A @ 250VAC/30VDC			
	1				
Optional Solid State	Pulse Outputs	(E1+, E1-, E2+, E2-)			
Туре	For	m A Solid State Relay			
Isolation	Optical				
Max. Load Voltage	30VDC				
Max. Forward Current		100mA			
Ontional Analog Out					
Optional Analog Out	put (via Modula				
Туре		0-20/4-20 mA			
Loading		500Ω maximum			
Overload		24 mA maximum			
Terminals Max. Torqu	ie				
U & I Inputs		1.2N·m			
DI, DO & RS-485		0.4N·m			
Environmental Cond	itions				
Operating Temperature		-25°C to +70°C			
Storage Temperature		-40°C to +85°C			
Humidity	5% to	95% non-condensing			
Atmospheric Pressure	6	60 kPa to 106 kPa			
Pollution Degree		2			
Machanical Charact	viction				
Mechanical Characte		02:02			
Farler Cutout		92x92 mm			
Unit Dimonsions					
Unit Dimensions IP Rating		96x96x85 mm 54			

Standards of Compliance

Safety Requirements	
CE LVD Directive 2014/35/EU	EN 61010-1: 2010 +A1: 2019 EN IEC 61010-2-030: 2021
Electrical Safety in Low Voltage Distribution Systems up to 1000Vac and 1500 Vdc	IEC 61557-12: 2018 (PMD)
Insulation	IEC 62052-31: 2015 EN 61010-1: 2010 + A1: 2019
AC Voltage Insulation Resistance Impulse Voltage	2kV @ 1 minute >100MΩ 6kV, 1.2/50µs

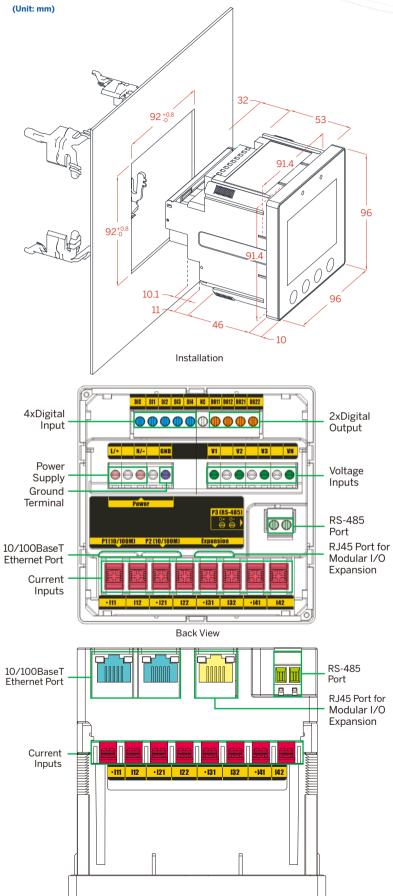
EMC Compatibility CE EMC Directive 2014/30/EU (EN IEC 61326: 2021)

Immunity (EN50082-2)	
Electrostatic Discharge	EN 61000-4-2: 2009
Radiated Fields	EN IEC 61000-4-3: 2020
Fast Transients	EN 61000-4-4: 2012
Surges	EN 61000-4-5: 2014 +A1: 2017
Conducted Disturbances	EN IEC 61000-4-6: 2023
Magnetic Fields	EN 61000-4-8: 2010
Voltage Dips and Interruptions	EN IEC 61000-4-11: 2020
Ring Wave	EN 61000-4-12: 2017

Emission (EN50081-2)

Limits and Methods of Measurement of Electromagnetic Disturbance Characteristics of Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment	EN 55011: 2016 +A11: 2020
Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment	EN 55032: 2015 +A11: 2020
Limits for Harmonic Current Emissions for Equipment with Rated Current ≤16A	EN 61000-3-2: 2019
Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems for Equipment with Rated Current ≤16A	EN 61000-3-3: 2013
Emission Standard for Industrial Environments	EN IEC 61000-6-4: 2019

Device View and Dimensions



Immunity (EN50082-2)	
Spring Hammer Test	IEC 62052-31: 2015
Vibration Test	IEC 62052-11: 2020
Shock Test	IEC 62052-11: 2020
Power Quality	
Voltage Characteristics of Electricity supplied by Public Distribution Systems	EN 50160: 2022
General Guide on Harmonic and Interna monic Measurements and Instrumenta for Power Supply Systems and Equipme Connected Thereto	tion, JEC 61000-4-7: 2009
Flickermeter - Functional and Design Specifications	IEC 61000-4-15: 2010
Testing and Measurement Techniques - Power Quality Measurement Methods	IEC 61000-4-30: 2021 Ed. 3.1
Power Quality Measurement in Power Supply Systems - Part 2: Functional	IEC 62586-2: 2021 Ed. 2.1

Tests and Uncertainty Requirements

Ordering Information

Product Code									Description
iMeter 5 Advanced	Power	Quality A	naly	zer					
	Ρ								Classic Model (PQA): IEC 62053-22 Class 0.2S Compliant, 512MB Log Memory, 3-phase True RMS Metering, Dips/Swells/Interruptions, PQ Disturbance Direction, Individual Harmonics up to 63 rd , WF Recording @ 512 samples/cycle, Data Recorders, Energy Logs and Event Logs as well as Trending Curves for recorded data
Basic Function	S*							Standard Model (PQI-S): Classic Model with 2GB Log Memory +Interharmonics, Flicker and Inrush Current, Transient Detection, Rapid Voltage Changes, Statistical Data Recorders, EN 50160 and IEEE Std 519-2022 Compliance Report, IEC 61000-4-30 Ed. 3.1 Class S Compliant	
	A*							Advanced Model (PQI-A): Standard Model with 4GB Memory +Mains Signalling Voltage, 2kHz-9kHz Conducted Emissions, IEC 61000-4-30 Ed. 3.1 Class A Compliant	
		5							5A
Input Current		1							1A
		SCCPA^							SCCP Option for use with CT Clamps with max. 500mV output (SCCPs not included)
Input Voltage			9	9					400VLN/690VLL +20% (Can be applied to 69VLN/120VLL, 120VLN/208VLL, 230VLN/400VLL, 240VLN/415VLL, 277VLN/480VLL, 347VLN/600VLL, 400VLN/690VLL or up to 800VLN systems
Dannan Cummlu				2					95-277VAC/DC ±10%, 47-440Hz
Power Supply				3					20-60VDC
System Frequency					5				40Hz-72Hz
1/0						А			4xDI +2xDO (Form A Mechanical Relay)
170						В			4xDI +2xSS Pulse Output
Communications							А		2x10/100BaseT Ethernet Port +1xRS-485 port (for Communications) 1xExpansion Port with RJ45 Connector (for connecting I/O modules)~
Display Language								Е	English
iMeter 5 -	Р	5	9	2	5	А	Α	Е	iMeter 5-P5925AAE (Basic Model)

Additional charges apply.
 The SCCPA option is compatible with the SCCP models listed in the "Optional SCCPs" sheet. This option does not come with any Current Clamp. Please refer to the "Optional SCCPs" sheet for more information and order the desired model and quantity as a separate item.
 This option does not come with any Expansion I/O module. Please order the desired expansion module and quantity as a separate

item ("Expansion Module" sheet to be updated).

Optional SCCPs

	((Q		
Model No.	PMC-SCCP-50A-500mV-B-A-B	PMC-SCCP-200A-200mV-B-B-B	PMC-SCCP-500A-500mV-B-B-B	* PMC-SCCP-5kA-500mV-B-C-C- 371/254/150/100
Measurement Range	5A (50A Imax)	20A/200A (200A Imax)	500A (500A Imax)	500A/5000A Rogowski Coil (5000A Imax)
Max. Allowable Current	50A	260A	500A	10,000A
Output Voltage	AC 10mV/A (Max. 500mV)	AC 10mV/A @ 20A AC 1mV/A @ 200A (Max. 200mV)	AC 1mV/A (Max. 500mV)	AC 1mV/A @ 500A AC 0.1mV/A @ 5000A (Max. 500mV)
Accuracy	±0.3% rdg. ±0.02% f.s.	±0.3% rdg. ±0.02% f.s.	±0.3% rdg. ±0.02% f.s.	±2.0% rdg. (1% - 200%) In
Protection	CAT III 300V	CAT III 600V	CAT III 600V	CAT III 1000V CAT IV 600V
Diameter	15mm	24mm	50mm	371/254/150/100mm
Cable Length	Зm	3m	3m	3m
Termination	BNC	BNC	BNC	BNC

* The Rogowski coil & integrator set comes with an external Power Supply.

Your Local Representative

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