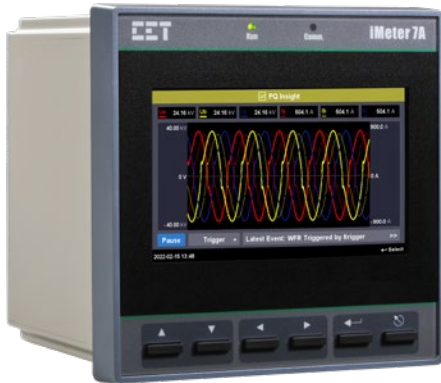


iMeter 7A

Advanced Power Quality Analyzer

iMeter 7A



iMeter 7A is one of CET's latest Advanced PQ Analyzer designed for the compliance monitoring market as it offers unsurpassed functionality by combining Class 0.2S Accuracy and advanced PQ Features in a compact DIN 144 form factor with a stunning, high resolution, color TFT LCD display. The iMeter 7A satisfies such standards as IEC62053-22 Class 0.2S, IEC61000-4-30 Edition 3 Class A, IEC-61000-4-15, IEC-61000-4-7, EN50160 and IEC61850 for Smart Grid applications. Further, the iMeter 7A offers 4GB memory, dual 100BaseT Ethernet and one RS-485 ports as well as extensive I/O with 4xDIs, 3xDOs and optionally 2xSS Pulse Outputs, 2xAIs or 2xRTDs. These features likely make the iMeter 7A one of the most advanced PQ Analyzers for an intelligent Power Quality Monitoring System.

Typical Applications

- PQ monitoring at HV, MV and LV Utility Substations
- Data Centers, Semiconductor Fabs, Heavy Industries
- 7x24 Automated Manufacturing Facilities
- Dips/Swells/Interruptions, Transients, Flickers & Harmonics Monitoring
- Mains and critical feeder monitoring
- IEC61850 support for Substation Automation and Smart Grid
- Retrofit applications with optional Class 1 Split-Core Current Probes (SCCPs)

Basic Features

- IEC62053-22 Class 0.2S kWh metering with Multi-Tariff TOU
- True RMS @ 1024 samples/cycle sampling
- 4GB on-board log memory
- Industrial-grade, 5", High-Resolution Color TFT LCD @ 800x480
- Standard 4xDigital Inputs, 3xDigital Outputs
- Time Sync. via IRIG-B, NTP, IEEE 1588 (PTP) or GPS 1PPS output
- 64 Programmable Setpoints
- Dual 100BaseT Ethernet and one RS-485 ports

Power Quality Features

- IEC61000-4-30 Edition 3 Class A Compliant
- IEC61000-4-7, IEC61000-4-15 and EN50160 Reporting
- 2kHz to 150kHz Conducted Emission Measurements
- Dips, Swells, Interruptions, Transients, Rapid Voltage Changes, Inrush Current, Mains Signalling Voltage and Flicker monitoring
- Real-time Waveform Capture (WFC), Waveform Recording (WFR) & Disturbance Waveform Recording (DWR)
- Disturbance Direction Indicator for Dip, Swell and Interruption
- Statistical Data Recording and ½ cycle RMS Recording
- Waveform Recording in COMTRADE file format

Display and Web Interface

- True RMS Real-time, Harmonics, Power and Energy Measurements
- Phasor Diagram
- Demands and Multi-Tariff TOU
- Max. & Min. Logs
- Deviation, Sequence & Unbalance
- Real-time WFC of 3-phase U & I @ 128 samples/cycle x 4 cycles
- Event Waveforms and ITIC/SEMI F47 Curves
- Harmonics & Interharmonics Histogram
- Device and SOE Logs, PQ Counters and I/O Status
- Device Configuration and Diagnostics

Multi-Tariff TOU Capability

- Two independent sets of TOU Schedules
 - Up to 12 Seasons
 - 90 Holidays or Alternate Days and 3 Weekdays
 - 20 Daily Profiles, each with 12 Periods in 15min intervals
 - 8 Tariffs, each providing the following information:
 - kWh/kvarh Import/Export and kVAh
 - P & Q Import/Export Maximum 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

Advanced Power



Power Quality Metering

PQ Parameters as per IEC61000-4-30 Ed.3 Class A Compliant

- Magnitude of Supply Voltage and Current
- Flicker
- Voltage Dips/Swells/Interruptions/Transients
- Unbalance for Supply Voltage and Current
- Harmonics and Interharmonics for Voltage and Current
- Mains Signalling Voltage on the Supply Voltage
- Rapid Voltage Changes
- Measurement of Over and Under Deviation Parameters
- 2kHz to 150kHz Conducted Emission Measurements

Harmonic and Interharmonic Measurements

- K-Factor for Current, Crest Factor for Current and Voltage
- U and I THD, TOHD, TEHD, TIHD, TOIHD, TEIHD and TH (RMS)
- U and I Individual Harmonics (%HD and RMS) from 2nd to 63rd #
- U and I Individual Interharmonics (%IHD and RMS) from 1st to 63rd #
- Total Harmonic P, Q, S and PF
- Harmonic P, Q, S and PF from 2nd to 63rd in RMS
- Fundamental U, I, P, Q, S Phase Angle and Displacement PF
- Harmonic Phase Angle from 2nd to 63rd
- U and I DC Components
- Fundamental kWh, kvarh Import/Export/Net/Total
- Total Harmonic kWh, kvarh Import/Export/Net/Total
- Total Harmonic kWh, kvarh Import/Export from 2nd to 63rd

*%HD and %IHD 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

Conducted Emissions in the 2kHz to 150kHz range

- Real-time amplitude (150/180-cycle) and the Max., Min., Avg. and CP95 values (in 1-min interval) for a total of 106 frequency segments for the 2kHz – 9kHz and 9kHz – 150kHz range
- Display of the Daily Heat Map for the Max., Min., Avg. and CP95 values on the Web Interface

Dips, Swells, Interruptions and Transients Recording

- Dips, Swells and Interruptions detection @ 10ms (½ cycle at 50Hz)
- Transients capture as short as 20µs at 512 samples @ 50Hz for sub-cycle disturbances such as capacitor switching and resonance phenomena
- Trigger for DO, SOE, WFR, DWR, RMS, iTrigger Recording and Alarm Email
- Display of Event associated WFR AND/OR DWR with ITIC and SEMI F47 Plot on the Front Panel and Web Interface

Rapid Voltage Changes (RVC)

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

Inrush Current Monitoring

- 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 Changes, 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 U4, I4, Ung, Frequency and Ir
- kWh, kvarh Import/Export/Net/Total and kVAh Total

High-Speed Measurements

- 3-phase U, I, P, Q, S and PF as well as U4 and I4 @ ½ cycle
- Frequency @ 1 cycle

Demands

- Present and Predicted Demand for 3-phase I, I Fund., P Import/Export, Q Import/Export, S as well as I4
- Maximum Demands for This Month and Last Month (or Since Last Reset & Before Last Reset)
- Demand Synchronization with DI

Data and Event Recorders

Non-Volatile Log Memory

- 4GB on-board Log Memory

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

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

Statistical Data Recorder (SDR)

- 8 SDR Logs of max. 64 parameters each
- Recording of the Max., Min., Avg. and CP95 values for Real-time Measurements including U, I, P, Q, S, PF, Freq., Harmonics, Deviations and Unbalances
- Recording Interval from 1 minute to 60 minutes
- 90 days @ 3-minute, 300 days @ 10-minute, 450-day @ 15-minute
- Downloadable via Free DiagSys software
- Support FIFO or Stop-When-Full mode

Max./Min. Recorder (MMR)

- 4 Max./Min. Recorders of 20 parameters each
- RMS/Fundamental/Harmonic/Interharmonic Measurements, Demands, Mains Signalling Voltages, Unbalances and Flicker
- Two transfer modes:
 - Manual: Max./Min. Since Last Reset & Before Last Reset
 - Auto: Max./Min. of This Month & Last Month

Data Recorder

- 8 DR Logs of max. 64 parameters each
- RMS/Fundamental/Harmonic/Interharmonic Measurements, Demands, Deviations, MSV, Unbalances and Flicker
- Configurable Recording Offset and Interval from 1s to 40 days
- Max. Recording Depth @ 65535 records
- Support FIFO or Stop-When-Full mode

SOE Log

- 1024 FIFO events time-stamped to ± 1 ms resolution
- Setpoint events, I/O operations, Dips, Swells, Interruptions, Transients, Rapid Voltage Changes, Inrush Current, Mains Signalling Voltage, etc.
- Record the characteristic data for Setpoint events as well as Waveform, ITIC and SEMI F47 Curve for PQ events

Device Log

- 1024 FIFO entries time-stamped to ± 1 ms resolution
- Power On/Off, Setup changes, Time Sync., Device Operations and Self-diagnostics

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 Current Inputs
- (Range of Cycles) x Samples/Cycles with programmable pre-fault and post-fault cycles: (30-400)x1024, (30-800)x512, (30-1600)x256, (30-3200)x128
- Scheduled WFR with max. repetition of 10,000 times and programmable schedule from 1 to 65535 min.
- COMTRADE file format, downloadable from the on-board Web Server or FTPS Server

Disturbance Waveform Recorder (DWR)

- 128 entries
- Simultaneous recording of all Voltage (U1-U4) and Current (I1-I4) Inputs
 - Initial Fault: 35 cycles @ 256 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 @ 256 samples/cycle

RMS Recorder (RMSR)

- 128 entries
- 16 channels max., selectable U, I, P, Q, S, PF, Freq., Freq. Deviation
- Recording Interval from 0.5 to 60 cycles
- Recording Depth @ 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 Recorder

- Cross trigger DO, SOE Log, WFR, DWR, RMSR and Alarm Email with other iMeter devices among the local area network (LAN) or Virtual LAN (VLAN)
- Provides Group ID and MAC Address for the trigger source

iMeter 7A

Inputs and Outputs

Digital Inputs

- Standard 4 or optional 8 channels, volt free dry contact, 24VDC Internal Excitation
- 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 and Tariff Switching based on DI Status

Digital Outputs

- Standard 2 and optional 4 channels Form A Mechanical Relays for general purpose control or alarming
- Optional 2 SS Relays for Energy pulsing applications
- 1 Normally Closed Mechanical Relay for LOP Alarm

Analog Inputs (Optional)

- Optional 2xAI, 0/4-20mA DC input with programmable zero and full scales that can be used to measure external transducer signal
- Optional 2xRTD for Temperature Measurements (PT100 Sensor not included)

Setpoints

PQ Setpoints

- Transients, Dips, Swells, Interruptions
- Rapid Voltage Changes, Inrush Current
- Trigger DO, SOE, WFR, DWR, RMSR, iTrigger Recording and Alarm Email

Control Setpoints

- 64 Control Setpoints can be configured as Standard or High-Speed
- Extensive monitoring sources including U, I, P, Q, S, Demands, Harmonics, Unbalances, Deviations, Flickers, Phase Reversal/Loss, TC and AI, etc.
- Configurable thresholds and time delays
- Trigger DO, SOE, WFR, DWR, RMSR, iTrigger Recording and Alarm Email

Digital Input Setpoints

- Provides Control Output Actions in response to changes in DI status
- Trigger DO, SOE, WFR, DWR, RMSR, iTrigger Recording and Alarm Email

Communications

Ethernet Ports (P1, P2)

- Dual 10/100BaseT Ethernet Ports with RJ45 connector
- Protocols supported: Modbus TCP, HTTPS, NTP, SMTPS, SNMP, FTPS, MQTT, IPsecVPN and IEC61850
- 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 12xModbus TCP and 4xIEC61850

RS-485 (P1, P2)

- One optically isolated RS-485 port with baud rate from 1.2 to 38.4 kbps
- Support Modbus RTU and Ethernet Gateway

Time Synchronization

- Battery-backed Real-time clock @ 6ppm ($\leq 0.5s/day$)
- Time Sync. with auto-selection among Modbus RTU, NTP, GPS 1PPS, IRIG-B and IEEE 1588 (PTP) for best accuracy

System Integration

PecStar® iEMS

- The iMeter 7A is supported by CET's PecStar® iEMS

Diagsys

- Display of Real-time Measurements, PQ Events, Waveforms and Statistical Trend charts
- Export of IER, AER and SDR Logs as well as EN50160 Reports
- Generation and export of self-defined PQ Analysis Reports

3rd Party System Integration

- Easy integration into Substation Automation or Utility SCADA systems via Modbus RTU, Modbus TCP or IEC61850



Accuracy

Parameters	Accuracy	Resolution
Voltage (U)	±0.1%	0.001V
I1, I2, I3, I4	5A/1A	±0.1%
	SCCT/SCCTA	±0.1% + Error of SCCT
	SCCPA	±0.1% + Error of SCCP
P, Q, S	5A/1A	±0.2%
	SCCT/SCCTA	±0.5%
kWh, kVAh	5A/1A	IEC62053-22 Class 0.2S
	SCCT/SCCTA	IEC62053-21 Class 1
	SCCPA	IEC62053-21 Class 1
kvarh	5A/1A	IEC62053-24 Class 0.5S IEC62053-23 Class 2
	SCCT/SCCTA	IEC62053-24 Class 1 IEC62053-23 Class 2
	SCCPA	IEC62053-24 Class 1 IEC62053-23 Class 2
PF	5A/1A	±0.2%
	SCCT/SCCTA	±0.5%
	SCCPA	±0.5%
Fundamental Phase Angle	5A/1A	±0.2%
	SCCT/SCCTA	±0.2° + Phase Error of SCCT
	SCCPA	±0.2° + Phase Error of SCCP
Harmonics Phase Angle	5A/1A	±5°
	SCCT/SCCTA	±5° + Phase Error of SCCT
	SCCPA	±5° + Phase Error of SCCP
Freq., Freq. Deviation	±0.003 Hz	0.001Hz
Harmonics, Interharmonics	IEC61000-4-7 Class A	0.01%
K-Factor	IEC61000-4-7 Class A	0.01
U Unbalance	±0.1%	0.01%
I Unbalance	±0.5%	0.01%
Pst, Plt	±5%	0.001
Dip, Swell, Interruption	Voltage: ±0.2%Un, Duration: ±1cycle	0.01%
MSV	±0.15%Un (1% - 3% Un) ±5%Un (4% - 100% Un)	0.01%

Digital Inputs (DIC, DI1, DI2, DI3, DI4, DI5, DI6, DI7, DI8)	
Standard	Dry contact, 24VDC internally wetted
Sampling	1000Hz
Hysteresis	1ms minimum

Digital Outputs (DO11/DO12, DO21/DO22, DO31, DO32, DO41, DO42)	
Type	Form A Mechanical Relay
Loading	5A @ 250VAC/30VDC

Alarm Output (Alarm)	
Loading	5A @ 250VAC or 30VDC

Current Inputs (-I11, I12, -I21, I22, -I31, I32, -I41, I42)		
Standard (In)	5A (Standard), 1A (Optional)	
Range	1% to 400% In	
Starting Current	0.1% In	
Overload	4xIn continuous, 10xIn for 1s	
Burden	< 0.5VA/per phase @ 5A	
	< 0.1VA/per phase @ 1A	
CT Ratio	Primary	1-30,000A
	Secondary	1-50A
	I4 Primary	1-30,000A
	I4 Secondary	1-50A
SCCP Options Split-Core Current Probe Input @ max. 500mV	SCCP-50A-500mV	5A/50A (In/Imax), max. 500mV Output
	SCCP-200A-200mV	20A/200A (In/Imax), max. 200mV Output
	SCCP-500A-500mV	500A Imax, max. 500mV Output
	SCCP-5000A-500mV	Selectable 500A/5000A (Imax) Rogowski Coil, max. 500mV Output
SCCT Options	PMC-SCCT-100A-40mA-16-A, Ø=16mm, Class 0.5	
	PMC-SCCT-200A-40mA-24-A, Ø=24mm, Class 0.5	
	PMC-SCCT-400A-40mA-35-A, Ø=35mm, Class 0.5	
	PMC-SCCT-800A-40mA-A, 80x50mm, Class 0.5	
	PMC-SCCT-1600A-40mA-A, 130x55mm, Class 0.5	
SCCTA Option	PMC-SCCT-5A-2mA-16-A, Ø=16mm, Class 1	

Optional Solid State Pulse Outputs (E1+, E1-, E2+, E2-)	
Type	Form A Solid State Relay
Isolation	Optical
Max. Load Voltage	30VDC
Max. Forward Current	100mA

Optional Analog Inputs (AI1+, AI1-, AI2+, AI2-, SH)	
Type	0-20/4-20 mA DC
Overload	24 mA maximum

Optional Temperature Inputs (TC11, TC12, TC21, TC22, SH)	
RTD Type	2-Wire PT100 (sensor not included)
Measurement Range	-40°C to +200°C

Clock Input (CLK+, CLK-, SH)	
Type	GPS, IRIG-B
Accuracy	1ms

Terminals Max. Torque	
U & I Inputs	1.2N·m
DI, DO, AI, TC, CLK & RS-485	0.4N·m

Technical Specifications

Voltage Inputs (V1, V2, V3, VN, V4, V4N)		
Standard (Un)	400ULN/690ULL +20%	
Range	5V to 2Un for 400VLN nominal	
Overload	2xUn continuous, 4xUn for 1s	
Burden	< 0.5VA/per phase	
PT Ratio	Primary	1-1,000,000V
	Secondary	1-1,500V
	V4 Primary	1-1,000,000V
	V4 Secondary	1-1,500V
Frequency	40Hz-60Hz @ 50Hz, 48Hz-72Hz @ 60Hz	

Power Supply (L+, N-)	
Standard	95-250VAC/VDC ± 10%, 47-440Hz
Optional	20-60VDC
Burden	< 14VA/10W
Overvoltage Category	CAT III 300V

Standards of Compliance

Safety Requirements	
CE LVD 2014/35/EU	EN61010-1: 2010 EN61010-2-030: 2010
Electrical Safety in Low Voltage Distribution Systems up to 1000Vac and 1500 Vdc	IEC61557-12: 2018 (PMD)
Insulation AC Voltage: 2kV @ 1 minute Insulation Resistance: >100MΩ Impulse Voltage: 6kV, 1.2/50μs	IEC62052-11: 2003 IEC62053-22: 2003 EN61010-1: 2010

EMC Compatibility

CE EMC Directive 2014/30/EU (EN61326: 2013)

Immunity Tests (EN50082-2)	
Electrostatic Discharge	EN61000-4-2: 2009
Radiated Fields	EN61000-4-3: 2006 +A1: 2008 +A2: 2010
Fast Transients	EN61000-4-4: 2012
Surges	EN61000-4-5: 2014 +A1: 2017
Conducted Disturbances	EN61000-4-6: 2014
Magnetic Fields	EN61000-4-8: 2010
Voltage Dips and Interruptions	EN61000-4-11: 2004 +A1: 2017
Ring Wave	EN61000-4-12: 2017

Emission (EN50081-2)	
Limits and Methods of Measurement of Electromagnetic Disturbance Characteristics of Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment	EN55011: 2016
Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment	EN55032: 2015
Limits for Harmonic Current Emissions for Equipment with Rated Current ≤16A	EN61000-3-2: 2014
Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems for Equipment with Rated Current ≤16A	EN61000-3-3: 2013
Emission Standard for Industrial Environments	EN61000-6-4: 2007 +A1: 2011

Mechanical Tests	
Spring Hammer Test	IEC62052-11: 2003
Vibration Test	IEC62052-11: 2003
Shock Test	IEC62052-11: 2003

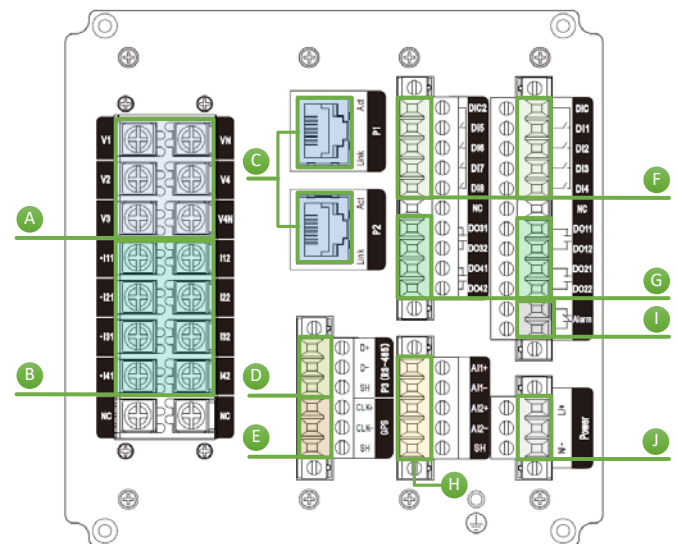
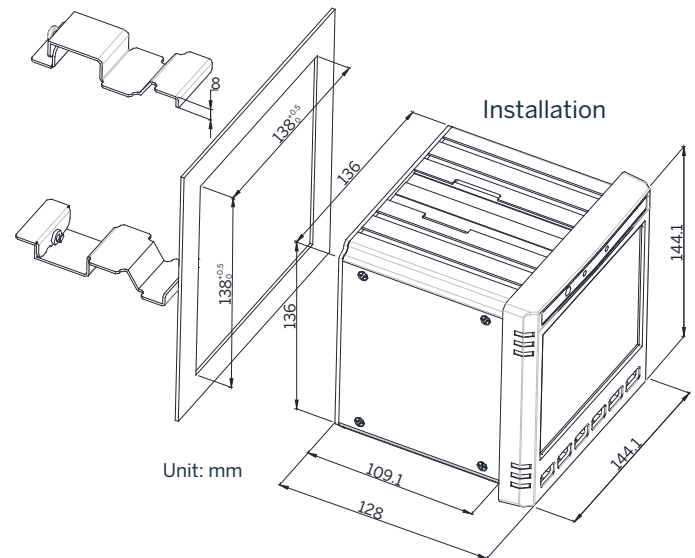
Power Quality	
Voltage Characteristics of Electricity Supplied by Public Distribution Systems	EN50160
General Guide on Harmonics and Interharmonic Measurements and Instrumentation, for Power Supply Systems and Equipment Connected Thereto	IEC61000-4-7
Flicker Meter-Functional and Design Specifications	IEC61000-4-15
Testing and Measurement Techniques-Power Quality Measurement Methods	IEC61000-4-30 Ed.3 Class A Certified
Power Quality Measurement in Power Supply Systems-Part 2: Functional Tests and Uncertainty Requirements	IEC62586-2 Ed.2

Environmental and Mechanical Specifications

Environmental Conditions	
Operating Temperature	-25°C to 70°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% non-condensing
Atmospheric Pressure	63 kPa to 110 kPa
Pollution Degree	2
Measurement Category	CAT III 1000V

Mechanical Characteristics	
Panel Cutout	138x138 mm
Unit Dimensions	144x144x128 mm
IP Rating	52

Device Dimensions



- A 4x Voltage Input
- B 4x Current Input
- C 2x 100BaseT Ethernet Port
- D 1x RS-485 Port
- E 1x GPS Input
- F 8x Digital Input
- G 4x Digital Output
- H 2x Analog Input
- I 1x Alarm Output
- J Power Supply





Ordering Guide

Product Code										Description	
iMeter 7A Advanced Power Quality Monitor											
Basic Feature	A										IEC61000-4-30 Ed. 3 Class A Compliance
	B*										IEC61000-4-30 Ed. 3 Class A Compliance with 2-150kHz C. E. Measurements
Input Current	5										5A
	1										1A
	SCCT										For use with 100A/200A/400A/800A/1600A to 40mA SCCTs (SCCTs not included)
	SCCTA										For use with 5A/2mA SCCT (SCCTs not included)
Input Voltage	SCCPA ^										SCCP Option for use with CT Clamps with max. 500mV output (SCCPs not included)
	9										400ULN/690ULL+20%
Power Supply	2										95-250VAC/DC ± 10%, 47-440Hz
	3										20-60VDC
System Frequency	5										50Hz
	6										60Hz
I/O	A										4xDI+3xDO
	B										4xDI+1xDO+2xSS Pulse Outputs
	C*										8xDI+5xDO+2xAI
	D*										8xDI+5xDO+2xRTD Inputs
Communications	A										2x100BaseT+1xRS-485
Display Language	E										English
iMeter 7A	-	A	5	9	2	5	A	A	E	iMeter 7A-A5925AAE (Standard Model)	

* Additional charges apply.

^ SCCPA option does not come with any Current Clamp. Please refer to the "Optional SCCPs" section for more information.

Optional SCCPs

				
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 I _{max})	20A/200A (200A I _{max})	500A (500A I _{max})	500A/5000A Rogowski Coil (5000A I _{max})
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%) I _n
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	3m	3m	3m	3m
Termination	BNC	BNC	BNC	BNC

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

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Your Local Representative



V.00 13.05.2022