CET


# iMeter D7

## DIN Rail Advanced Power Quality Analyzer

www.cet-global.com

# iMeter D7

The **iMeter D7** is CET's Advanced DIN Rail Mounted PQ Analyzer designed for the compliance monitoring market as it offers un-surpassed functionality by combining Class 0.2S accuracy and advanced PQ features in a compact 145×124×77mm housing with a High-Resolution, Color IPS Dot-Matrix LCD display. The iMeter D7 complies with standards IEC62053-22 Class 0.2S, IEC61000-4-30 Ed.3 Class A, IEC61000-4-15, IEC61000-4-7, EN50160 as well as IEC61850 for Substation Automation. Further, it offers a large logging capacity with 4GB of on-board memory, extensive I/O, multiple Time Sync. Methods, 2x100BaseT Ethernet and 1xRS-485 ports. In addition, it optionally supports 4G wireless connection, 2xAI for measuring external transducer signal or 1xIresidual Input & 1xRTD for Leakage Current and Temperature Measurements. These features likely make the iMeter D7 the most advanced DIN Rail PQ Analyzer for an intelligent Power Quality Monitoring System.

## Typical Applications

- PQ monitoring at LV Utility Substations
- Data Centers, Semiconductor Fabs and Heavy Industries
- Dips, Swells, Interruptions, Transients, Flickers and Harmonics monitoring
- IEC61850 support for Substation Automation and Smart Grid
- Retrofit applications with optional Class 1 Split-Core Current Probes

## Basic Features

- IEC62053-22 Class 0.2S kWh metering with Multi-Tariff TOU
- True RMS @ 1024 samples/cycle sampling
- 4GB on-board log memory
- High-Resolution IPS Color LCD Display @ 320x240
- Time Sync. via IRIG-B, SNTP, IEEE1588 (PTP) or GPS 1PPS o/p
- 40 Programmable Setpoints
- Dual 100BaseT Ethernet and one RS-485 ports

## Display & Web Server

The panel display and on-board web server allow complete access to following data and configurations

- True RMS Real-time, Harmonics, Power and Energy Measurements
- Phasor Diagram
- Demands and Multi-Tariff TOU
- Max. & Min. Logs
- 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 and Phasor Diagrams
- Device and SOE Logs, PQ Counters and I/O Status
- Device Configuration and Diagnostics

## Metering

### Basic Measurements (1-second update)

- 3-phase U, I, P, Q, S and PF as well as U4, I4, 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 @ 5 cycle

### Demands

- Present and Predicted Demand for 3-phase U, I, P, Q, S, PF as well as U4, I4, Frequency
- Present Demand of 4-phase U & I THD/TOHD/TEHD, 4-phase Current K-Factor, U & I Unbalance, Over and Under Deviation of Voltage and Frequency, 4-phase Fundamental Current
- Maximum Demands for This Month & Last Month (or Since Last Reset & Before Last Reset)
- Max./Min. values per Demand Interval
- Demand Synchronization with DI

# Advanced Power

## 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 15-minute 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

## Power Quality Metering

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

- Power Frequency
- Magnitude of the Supply Voltage
- Flicker
- Supply Voltage Dips/Swells
- Voltage Interruptions
- Transient Voltages
- Supply Voltage Unbalance
- Voltage Harmonics and Interharmonics
- Mains Signalling Voltage on the Supply Voltage
- Rapid Voltage Changes
- Measurement of Over and Under Deviation Parameters
- Magnitude of Current
- Current Harmonics and Interharmonics
- Current Unbalance
- 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

### Conducted Emissions in the 2kHz to 150kHz Range

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

### Sequence and Unbalance

- Zero, Positive and Negative Sequence Components
- U and I Unbalance based on Zero and Negative Sequence Components

### Dips, Swells, Interruptions and Transients Recording

- Dips, Swells and Interruptions detection @ 10ms (½ cycle at 50Hz)
- Transients capture as short as 40us at 512 samples @ 50Hz for sub-cycle disturbances such as capacitor switching and resonance phenomena
- Trigger for DO, SOE Log, WFR, DWR, RMS Recording and Alarm Email
- Display of Event WFR or DWR on the Front Panel and Web Interface
- Display of ITIC or SEMI F47 plot on the 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 Dip 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 Current, Mains Signalling Voltages and Total PQ Event Counters

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

- Real-time WF Capture @ 128 samples/cycle x 4 cycles via Front Panel and Web interface
- WFR with max. 128 entries
- Simultaneous capture of 3-phase Voltage and Current Inputs
- (Range of Cycles) x Samples/Cycles with programmable pre-fault cycles between 2-6 cycles: (20-250) x1024, (20-500) x512, (20-1000) x256, (20-2000) x128
- Scheduled WFR with max. repetition of 10,000 times and programmable schedule from 1 to 960 hours.
- COMTRADE file format, downloadable from the on-board Web Server or FTP Server

### Disturbance Waveform Recorder (DWR)

- 128 entries
- Simultaneous recording of all Voltage (U1-U4) 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

### 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

# Quality Analyzer

## Power Quality Features

- IEC61000-4-30 Edition3 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
- Statistical Data Recording and ½ cycle RMS Recording
- Fault Capture up to 2,000V peak to peak (400VLN Input)
- Waveform Recording in COMTRADE file format

## 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 and Total 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, Deviations, Unbalances and Flicker
- Two transfer modes:
  - Manual: Max./Min. Since Last Reset & Before Last Reset
  - Auto: Max./Min. of This Month & Last Month

### SOE Log

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

# iMeter D7

## Setpoints

### PQ Setpoints
- Transients, Dips, Swells, Interruptions
- Rapid Voltage Changes, Inrush Current
- Trigger DO, SOE Log, WFR, DWR, RMSR and Alarm Email

### Control Setpoints
- 40 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, Ir and AI, etc.
- Configurable thresholds and time delays
- Trigger DO, SOE Log, WFR, DWR, RMSR and Alarm Email

### Digital Input Setpoints
- Provides Control Output Actions in response to changes in Digital Input status
- Trigger DO, SOE Log, WFR, DWR, RMSR and Alarm Email

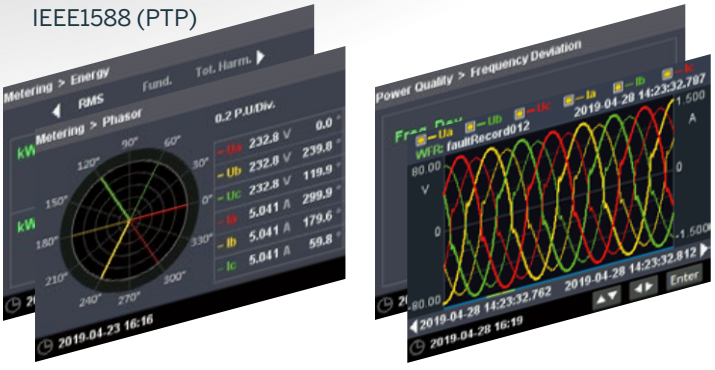
## Inputs and Outputs

### Digital Inputs
- 4 channels, volt free dry contact, 24VDC Internal Excitation
- 1000Hz sampling 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 channels Form A and 1 channel Form C Mechanical Relays for general purpose control or alarming
- Optional 3 SS Relays for Energy pulsing applications

### 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 1xIresidual Input for Leakage Current & 1xRTD for Temperature Measurements (Residual Current Transducer and PT100 Sensor not included)

## Time Synchronization
- Battery-backed Real-time clock @ 6ppm (⩽ 0.5s/day)
- Time Sync. via Modbus RTU, SNTP, GPS 1PPS, IRIG-B or IEEE1588 (PTP)




## Communications

### Ethernet Ports (P1, P2)
- Dual 10/100BaseT Ethernet Ports with RJ45 connector and built-in switch
- Protocols supported: Modbus TCP, HTTPS, SNTP, SMTP, FTP, MQTT and IEC 61850
- 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 8xModbus TCP and 4xIEC61580

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

### 4G (Optional)
- One Optional 4G connection with the following Frequency Bands supported.
  - GSM: EGSM 900MHz/DCS 1800MHz
  - CDMA2000/EVDO: BC0
  - WCDMA: BAND1/BAND8
  - TD-SCDMA: TD-SCDMA 1.9G/TD-SCDMA 2G
  - LTE-FDD: LTE-FDD B1/B3/B8
  - LTE-TDD: LTE TDD B38/B39/B40/B41

## System Integration

### PecStar® iEMS
- The iMeter D7 is supported by CET's PecStar® iEMS
- In addition, the iMeter D7 can be easily integrated into other 3rd party systems because of its support of multiple communications ports as well as different industry standard protocols such as Modbus and IEC61850

### 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
- 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 on-board, password protected FTP Server allows the logged C.E. Measurement data in CSV format and waveform records in COMTRADE format to be downloaded without any special software. The downloaded files can be subsequently viewed using software that supports these industry standard file formats

# Accuracy

| Parameters | Accuracy | | Resolution |
|---|---|---|---|
| Voltage (U) | ±0.1% | | 0.001V |
| I1, I2, I3, I4 | 5A/1A | ±0.1% | 0.001A |
| | SCCT/SCCTA | ±0.1%+Error of SCCT | |
| | SCCPA | ±0.1%+Error of SCCP | |
| P, Q, S | 5A/1A | ±0.2% | 0.001kX |
| | SCCT/SCCTA | ±0.5% | |
| | SCCPA | ±0.5% | |
| kWh, kVAh | 5A/1A | IEC62053-22 Class 0.2S | 0.1kXh |
| | SCCT/SCCTA | IEC62053-22 Class 1 | |
| | SCCPA | IEC62053-21 Class 1 | |
| kvarh | 5A/1A | IEC62053-24 Class 0.5S<br>IEC62053-23 Class 2 | 0.1kvarh |
| | SCCT/SCCTA | IEC62053-24 Class 1<br>IEC62053-23 Class 2 | |
| | SCCPA | IEC62053-24 Class 1<br>IEC62053-23 Class 2 | |
| PF | 5A/1A | ±0.2% | 0.001 |
| | SCCT/SCCTA | ±0.5% | |
| | SCCPA | ±0.5% | |
| Phase Angle | 5A/1A | ±0.2° | 0.1° |
| | SCCT/SCCTA | ±0.2°+Phase Error of SCCT | |
| | SCCPA | ±0.2°+Phase Error of SCCP | |
| Frequency | ±0.003Hz | | 0.001Hz |
| Harmonics | 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 |

# Technical Specifications

| Voltage Inputs (V1, V2, V3, VN, V4, V4N) | | |
|---|---|---|
| Standard (Un) | 400VLN/690VLL+ 20% | |
| Range | 5V to 200% Un 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 | |

| 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 |
| SCCPA Options | Split-Core Current Probe Input @ 500mV<br>(Available Options: 5/50A, 20/200A, 500A, 500/5000A) | |
| SCCT Options | Class 0.5 Split-Core CT Input @ 40mA<br>(Available Options: 100A, 200A, 400A, 800A, 1600A) | |
| SCCTA Option | Class 1 Split-Core CT Input @ 2mA<br>(Available Option: 5A only) | |

| Power Supply (L+, N-, G) | |
|---|---|
| Standard | 95-250VAC/VDC ± 10%, 47-440 Hz |
| Burden | < 10W |

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

| Form A Relay Outputs (DO11, DO12, DO21, DO22) | |
|---|---|
| Type | Form A Mechanical Relay |
| Loading | 5A @ 250VAC or 30VDC |

| Form C Relay Outputs (Alarm 1, 2, 3) | |
|---|---|
| Type | Form C Mechanical Relay |
| Loading | 8A @ 250VAC or 24VDC |

| Optional Pulse Outputs (E1+, E1-, E2+, E2-, E3+, E3-) | |
|---|---|
| Type | Form A Solid State Relay |
| Isolation | Optical |
| Max. Load Voltage | 30VDC |
| Max. Forward Current | 100mA |

| Optional Analog Input (AI1+, AI1-, AI2+, AI2-) | |
|---|---|
| Type | 20/4-20 mA DC |
| Overload | 24 mA maximum |

| Optional Residual Current Input (-IR, IR) | |
|---|---|
| In | 0.5 mA |
| Range | 2-200%In |

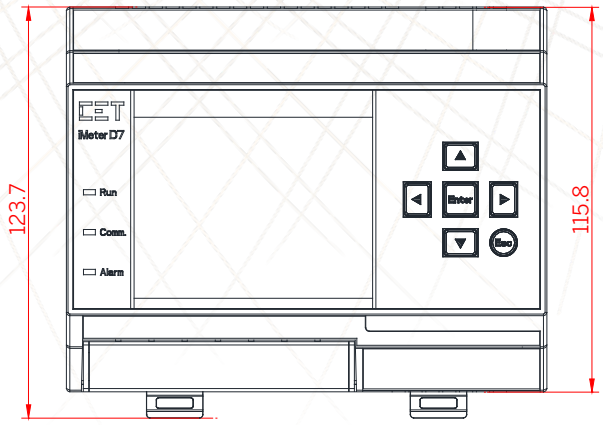
| Optional RTD Temperature Inputs (TC11, TC12) | |
|---|---|
| RTD Type | 2-Wire PT100 (sensor not included) |
| Range | -40°C to +200°C |

| 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 600V |

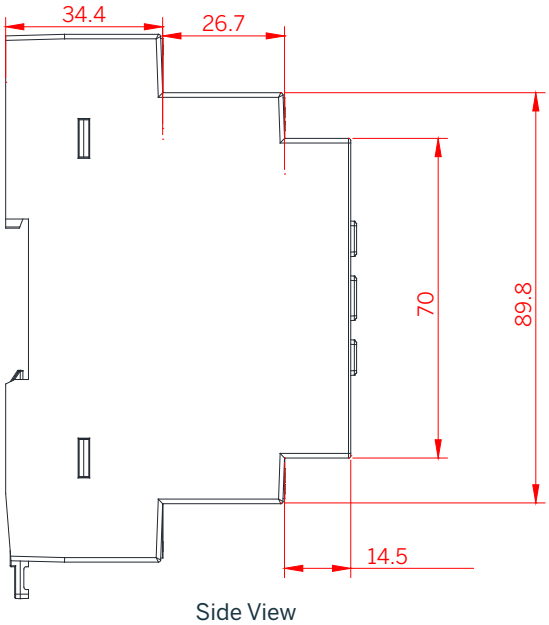
| Mechanical Characteristics | |
|---|---|
| Mounting | 35mm DIN Rail |
| Unit Dimensions | 145×124×77 mm |
| IP Rating | 30 |

# Device Views

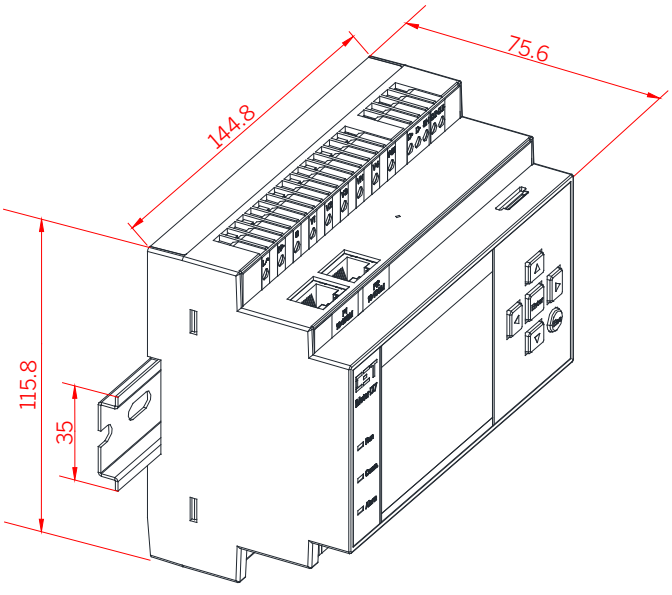
Unit: mm




Front View




Side View




Installation

# Standards of Compliance

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

# EMC Compatibility

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

| Immunity (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 |

| 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 ≤16 A | EN61000-3-2: 2014 |
| Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems for Equipment with Rated Current ≤16 A | 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 Harmonic 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<br>Class A Compliant |
| Power Quality Measurement in Power Supply Systems-Part 2: Functional Tests and Uncertainty Requirements | IEC62586-2 Ed.2 |

# Ordering Guide

| Product Code | | | | | | | | | | | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|
| iMeter D7 DIN Rail Advanced Power Quality Analyzer | | | | | | | | | | | |
| Basic Function | | 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 SCCTs (SCCTs not included) |
| | | | SCCPA^ | | | | | | | | SCCP Option for use with CT Clamps with max. 500mV output (SCCPs not included) |
| Input Voltage | | | | 9 | | | | | | | 400VLN/690VLL+20% |
| Power Supply | | | | | 2 | | | | | | 95-250VAC/DC ± 10%, 47-440Hz |
| System Frequency | | | | | | 5 | | | | | 50Hz |
| | | | | | | 6 | | | | | 60Hz |
| I/O | | | | | | | A | | | | 4xDI + 3xDO (Mechanical Relay) |
| | | | | | | | B | | | | 4×DI + 3×SS Pulse Outputs |
| Analog Inputs | | | | | | | | X | | | None |
| | | | | | | | | A* | | | 2×AI |
| | | | | | | | | B* | | | 1×Ir + 1×RTD |
| Communications | | | | | | | | | A | | 2×100BaseT + 1×RS-485 |
| | | | | | | | | | B* | | 2×100BaseT + 1×RS-485 + 4G |
| Display Language | | | | | | | | | | E | English |
| iMeter D7 | - | A | 5 | 9 | 2 | 5 | A | X | A | E | iMeter D7-A5925AXAE (Standard Model) |

* Additional charges apply.

^ The SCCPA option is compatible with the SCCPs listed in the "Optional SCCPs" section. This option does not come with any Current Clamp. Please refer to the "Optional SCCPs" section for more information and order the desired model and quantity as a separate item.

# 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<br>(50A Imax) | 20A/200A<br>(200A Imax) | 500A<br>(500A Imax) | 500A/5000A Rogowski Coil<br>(5000A Imax) |
| Max. Allowable Current | 50A | 260A | 500A | 10, 000A |
| Output Voltage | AC 10mV/A<br>(Max. 500mV) | AC 10mV/A @ 20A<br>AC 1mV/A @ 200A<br>(Max. 200mV) | AC 1mV/A<br>(Max. 500mV) | AC 1mV/A @ 500A<br>AC 0.1mV/A @ 5000A<br>(Max. 500mV) |
| Accuracy | ±0.3% rdg.<br>±0.02% f.s. | ±0.3% rdg.<br>±0.02% f.s. | ±0.5% rdg.<br>±0.02% f.s. | ±2.0% rdg.<br>±1.5mV |
| Protection | CAT III 300V | CAT III 600V | CAT III 600V | CAT III 1000V<br>CAT IV 600V |
| Diameter | 15mm | 24mm | 50mm | 371/254/150/100 (mm) |
| Cable Length | 3m | 3m | 3m | 3m |
| Termination | BNC | BNC | BNC | BNC |

*The Rogowski Coil SCCP comes with an external Universal Power Supply and an integrator.

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Your Local Representative

V.00 08.07.2020