# Acuvim 3

Advanced Power Quality Meter
Datasheet


IEC 61000-4-30 Certified

EN55011

## DESCRIPTION

Acuvim 3 is the ultimate power quality and revenue grade energy meter fully compliant to IEC 61000-4-30 Class A standard and third-party certified by NMi. Designed with an industry-leading ANSI C12.20 Class 0.1/IEC 62053-2 Class 0.1S measurement accuracy and able to precisely detect power quality anomalies in critical distributed energy systems. Reports, data, analysis and control are easily accessible anywhere when using the optional 7-inch colour touch screen remote display unit or web interface.

## FEATURES

+ ANSI C12.20/IEC 62053-22 Class 0.1 accuracy for revenue metering
+ IEC 61000-4-30 Class A compliant power quality monitor
+ IEC 61000-4-15 compliant flicker measurement for voltage fluctuations
+ Waveform capture detection up to 512 sample per cycle and stored in COMTRADE data format
+ Frequency deviation triggers high speed data log-based events with pre/post event recording of active power and frequency
+ EN50160/IEEE519 compliant power quality report
+ IEEE C37.118 compliant synchrophasor measurement and data transfer
+ Time synchronization with IRIG-B, NTP, SNTP and PTP
+ Multi-protocol communications: IEC 61850, EtherNet/IP, Modbus-RTU, Modbus-TCP/IP, BACnet-IP, BACnet MS/TP, DNP3 TCP, SNMP, and IPv6/Ipv4
+ Dual Ethernet port, RS485, Wi-Fi (2.4GHz), IRIG-B, 4 digital I/O, and USB-C interface
+ 32 GB Data logger and data post: Up to 15 configurable dataloggers with user-selectable logging interval and parameters
+ Time of Use (TOU) support with 8 tariff rates and up to 12 historic billing periods
+ Optional 7-inch HMI touch screen colour remote display unit
+ 5A/1A, 333mV or RCT (Rogowski) current sensing input
+ DIN rail mount or panel mount installation

## KEY FEATURES

### Power Quality Analysis

IEC 61000-4-30 Class-A compliant metering:

+ Voltage/Current RMS measurement updated at half-cycle, with IEC 61557-12 Class 0.1 accuracy
+ Frequency 40Hz to 70Hz, 1mHz accuracy exceeds IEC 61557-12 Class 0.02 requirements
+ IEC 61000-4-15 Class F1 flicker voltage fluctuation measurement updated at 10-minute/2-hour intervals
+ Voltage/Current Harmonics up to 127$^{th}$

PQ event monitoring:

+ Examines half-cycle voltage RMS and current RMS to detect sags, swell, or unbalance events
+ Analyze transient voltage at a rate of 32,000 samples per second
+ Detect voltage interruption based on threshold and hysteresis triggers

Waveform capture and fast logging:

+ Sample up to 60 cycles before and up to 300 cycles after PQ events
+ High resolution waveform sampling rate up to 512 samples per cycle for voltage and current
+ DI triggered waveform
+ 10-second extended waveform capture
+ Capture waveform events in COMTRADE file formats and posted to remote server via HTTP/FTP
+ Fast log waveform capture for half-cycle voltage and current RMS. Stored in a CSV file for post transfer to remote server
+ Configure alarms to automatically send waveform capture event-based emails

IEC 61000-4-30 PQ compliant measurements and logging reports:

+ EN 50160 power quality logging report for voltage RMS, unbalance, THD, harmonics, interruption, dip, and swell
+ IEEE 519 pass/fail report for voltage and current harmonics distortion
+ ITIC/CBEMA and SEMI curves analysis for power tolerance restrictions and IT infrastructure

### Revenue Grade Power & Energy Metering

High precision resolution:

+ Active energy: IEC 62053-22 Class 0.1S/ANSI C12.20 Class 0.1
+ Reactive energy exceeds IEC 62053-24 Class 0.5S
+ Active power: IEC 61557-12 Class 0.1
+ Power factor exceeds IEC61557-12 Class 0.5

Measurements:

+ Monitor real-time parameters for current, voltage, active power, reactive power, power factor, frequency, load nature
+ Bidirectional energy: import/export/net/total
+ Full four quadrant recording and analysis of energy flow for each phase and system energy

Time of Use (TOU) metering:

+ Up to 8 tariff rates
+ Rate structure assignment at 30 minutes interval
+ Record TOU net active energy, net reactive energy, apparent energy, and their maximum values for configured billing period
+ Record for current and 12 previous billing periods

### Synchrophasor Measurement

IEEE C37.118 compliant for high-speed precision measurements and data transfer:

+ Synchronized phasor
  + IRIG-B time synchronization in millisecond level precision
  + Magnitude / angle size for both voltage / current phasors
  + Individual voltage and current channel and polyphase positive sequence convention
  + Frequency and rate of change of frequency (ROCOF) detection against islanding
+ Configurable reporting data frame rates
  + 50Hz: 10, 25, 50 frames/second
  + 60Hz: 10, 12, 15, 20, 30, 60 frames/second
+ Communication protocol
  + Producer (server) of synchrophasor data
  + TCP/IP Ethernet-based network with broadcast/multicast data transmission support
  + UPD data frame transmission using spontaneous or commanded communication modes

## APPLICATIONS

+ SCADA
+ UPS Systems
+ Transportation Monitoring
+ Auxiliary Frequency Response Services and Incentives
+ Power Distribution
+ Critical infrastructure
+ Power Distribution Substations
+ DER - Microgrids and Virtual Power Plants
+ Industrial Automation
+ Manufacturing Facilities
+ University and Clinical Laboratories
+ Healthcare Facilities EPSS Testing Systems
+ Power Quality
+ Telecommunications
+ Power Distribution Units and Data Center Infrastructure

## SPECIFICATIONS

### Metering

| PARAMETERS | ACCURACY | RESOLUTION | RANGE | UPDATE RATE |
|---|---|---|---|---|
| Voltage | 0.1% | 0.001V | VLN :10V~400V<br>VLL:17.3V~690V | ½ Cycle<br>200ms (10/12 Cycle) |
| Current | 0.1% | 0.001A | 1A:10mA~2A<br>5A:50mA~10A<br>333mV:3mV~400mV<br>Rogowski Coil:3mV~400mV | ½ Cycle<br>200ms (10/12 Cycle) |
| Power | 0.1% | 1W | -999999.999MW~999999.999MW | ½ Cycle<br>200ms (10/12 Cycle) |
| Reactive Power | 0.1% | 1var | -999999.999Mvar~999999.999Mvar | ½ Cycle<br>200ms (10/12 Cycle) |
| Apparent Power | 0.1% | 1VA | 0~999999.999MVA | ½ Cycle<br>200ms (10/12 Cycle) |
| Power Demand | 0.1% | 1W | -999999.999MW~999999.999MW | ½ Cycle<br>200ms (10/12 Cycle) |
| Reactive Power Demand | 0.1% | 1var | -999999.999Mvar~999999.999Mvar | ½ Cycle<br>200ms (10/12 Cycle) |
| Apparent Power Demand | 0.1% | 1VA | 0~999999.999MVA | ½ Cycle<br>200ms (10/12 Cycle) |
| Power Factor | 0.1% | 0.001 | -1.000~1.000 | |
| Frequency | 0.001% | 0.001Hz | 40.000Hz~70.000Hz | ½ Cycle<br>200ms (10/12 Cycle)<br>10s |
| Energy | 0.1% | 0.001Wh | 0~999999.999MWh | ½ Cycle<br>200ms (10/12 Cycle) |
| Reactive Energy | 0.1% | 0.001varh | 0-999999.999Mvarh | ½ Cycle<br>200ms (10/12 Cycle) |
| Apparent Energy | 0.1% | 0.001VAh | 0-999999.999MVAh | ½ Cycle<br>200ms (10/12 Cycle) |
| Harmonics | 0.15% | 0.001% | | 200ms (10/12 Cycle) |
| Phase Angle | | 0.001° | 0.000°~359.999° | ½ Cycle<br>200ms (10/12 Cycle) |
| Unbalance Factor | 0.15% | 0.001% | 0.000%~100.000% | 200ms (10/12 Cycle) |
| Running Time | | 1 minute | | |
| Flicker | 5% | | | Short Term (10 min)<br>Long Term (2 hour) |

### Input

**CURRENT INPUTS *(EACH CHANNEL)***

| | |
|---|---|
| Nominal Current Options | ① 5A, ② 1A, ③ 333mV, ④ Rogowski Coil |
| Metering Range | ① 0-10A, ② 0-2A, ③ 0-400mV,<br>④ 0-400mV |
| Pickup Current | ① 0.5mA, ② 0.5mA, ③ 0.25mV, ④ 0.25mV |
| Withstand | 20Arms Continuous,<br>50Arms @10sec/hr, 500Arms @1sec/hr |
| Burden | 0.05VA (Typical) @ 5A RMS |
| Accuracy | 0.1% at Reading |

**VOLTAGE INPUTS *(EACH CHANNEL)***

| | |
|---|---|
| Nominal Full Scale | 400Vac L-N, 690Vac L-L (+20%) |
| Withstand | 1500Vac Continuous<br>2500Vac, 50/60Hz for 1 Minute |
| Input Impedance | 2MΩ per Phase |
| Metering Frequency | 40Hz~70Hz |
| Pickup Voltage | 5Vac |
| Accuracy | 0.1% at Reading |

**POWER ACCURACY**

| | |
|---|---|
| Active Power | Class 0.1 (According to IEC61557-12) |

**FREQUENCY ACCURACY**

| | |
|---|---|
| Frequency | Class 0.02 (According to IEC61557-12) |

**ENERGY ACCURACY**

| | |
|---|---|
| Active | Class 0.1s (According to IEC 62053-22)<br>Class 0.1 (According to ANSI C12.20) |
| Reactive | Class 0.5s (According to IEC 62053-24) |

**HARMONIC RESOLUTION**

| | |
|---|---|
| Metered Value | 127th Harmonic |

# SPECIFICATIONS

## I/O Options

### DIGITAL INPUT

| | |
|---|---|
| Input Type | Dry |
| Input Resistance | 100kΩ |
| Input Voltage Range | 20~160 Vac/dc |
| Input Current (Max) | 2mA |
| Start Voltage | 15V |
| Stop Voltage | 5V |
| Pulse Frequency (Max) | 100Hz, 50% Duty Ratio<br>(5ms ON and 5ms OFF) |
| SOE Resolution | 2ms |

### DIGITAL OUTPUT *(DO)*

| | |
|---|---|
| Voltage Range | 0~250Vac/dc |
| Load Current | 100mA (Max) |
| Output Frequency | 25Hz, 50% Duty Ratio<br>(20ms ON, 20ms OFF) |
| Isolation Voltage | 2500Vac |

### RELAY OUTPUT *(RO)*

| | |
|---|---|
| Switching Voltage (Max) | 250Vac, 30Vdc |
| Load Current | 5A (R), 2A (L) |
| Set Time | 10ms (Max) |
| Contact Resistance | 30mΩ (Max) |
| Isolation Voltage | 2500Vac |

### ANALOG OUTPUT *(AO)*

| | |
|---|---|
| Output Range | 0~5V, 0~20mA<br>1~5V, 4~20mA<br>Optional |
| Accuracy | 0.50% |
| Temperature Drift | 50ppm/°C Typical |
| Isolation Voltage | 500Vdc |
| Open Circuit Voltage | 15V |

### ANALOG OUTPUT *(AI)*

| | |
|---|---|
| Input Range | 0~5V, 0~20mA<br>1~5V, 4~20mA<br>Optional |
| Accuracy | 0.20% |
| Temperature Drift | 50ppm/°C Typical |
| Isolation Voltage | 500Vdc |

### POWER SUPPLY FOR DI *(24 VDC)*

| | |
|---|---|
| Output Voltage | 24Vdc |
| Output Current | 42mA |
| Load (Max) | 21DIs |

## Mechanical Characteristics

| | |
|---|---|
| IP Degree of Protection | IP54: Panel mount and touchscreen display, front. |
| | IP30: Panel mount rear, DIN rail mount, I/O modules. |

## Communications

| | |
|---|---|
| **Serial Port Protocols** | Modbus-RTU<br>9600~115200 bps |
| **WEB SERVER** | HTTP/HTTPS |
| **TIME SYNCHRONIZATION** | NTP, SNTP, IRIG-B, PTP |
| **ETHERNET** | IPv4, IPv6, DHXP, DNS<br>MODBUS-TCP/IP<br>DNP 3.0 Over IP Level 2<br>IEC 61850 1st and 2nd Edition<br>PMU (C37.118)<br>SNMP V2C and V3<br>BACnet-IP<br>HTTP/HTTPS Webserver file download<br>HTTP/HTTPS, FTP, sFTP, SMTP Email data post, EtherNet/IP |
| **WI-FI** | (802.11 b/g/n 2.4GHz/5GHz) |

## Control Power

| | |
|---|---|
| Universal | AC or DC |

### AC/DC CONTROL POWER

| | |
|---|---|
| Operating Range | AC(P1):100~415Vac, 50/60Hz; 100~300Vdc<br>DC(P2):20 to 60V DC±10% |
| Burden | 15W, 25VA |
| Frequency | 50/60Hz |
| Withstand | 3250Vac, 50/60Hz for 1 minute |
| | Installation Category III (Distribution) |

### LOW VOLTAGE DC CONTROL POWER *(OPTIONAL)*

| | |
|---|---|
| Operating Range | 20~60Vdc |
| Burden | 5W |

## Operating Environment

| | |
|---|---|
| Operating Temperature | -25°C to 70°C<br>-13°F to 158°F |
| Storage Temperature | -40°C to 70°C<br>-40°F to 158°F |
| Relative Humidity | 5% to 95% Non-Condensing |
| Altitude | <3000m |
| Pollution Degree | 2 |
| Location/Mounting | Indoor use only |

## Standard Compliance & Certifications

| | |
|---|---|
| Measurement Standard | IEC 62053-22; ANSI C12.20; IEC61557-12 |
| Power Quality | Class A (According to IEC 61000-4-30) |
| Main Signaling | Class A (According to IEC 61000-4-30) |
| Flicker | IEC 61000-4-15 F1 |
| Environmental Standard | IEC 60068-2, CE, RoHS |
| Safety Standard | IEC/UL 61010-1:2010,<br>IEC/UL 61010—2-030:2010,<br>Overvoltage Category III,<br>Measurement Category III |
| EMC Standard | IEC 61000-4/-2-3-4-5-6-8-11-12-16-18,<br>CISPR 32, Class B, IEC 62052-11,<br>IEC 61326-1, IEC 61000-6-5 |
| Outlines Standard | DIN 43700, ANSI C39.1 |
| Protocol Conformance | IEC 61850 2nd Edition<br>BTL Listed for B-SA |

## FUNCTION LIST

| REAL TIME MEASURING | Parameters |
|---|---|
| Phase Voltage | V_A, V_B, V_C, VLN_AVG |
| Line Voltage | V_AB, V_BC, V_CA, VLL_AVG |
| Current | I_A, I_B, I_C, I_N, I_AVG |
| Power | P_A, P_B, P_C, P_SYS |
| Reactive Power | Q_A, Q_B, Q_C, Q_SYS |
| Apparent Power | S_A, S_B, S_C, S_SYS |
| Power Factor | PF_A, PF_B, PF_C, PF |
| Frequency | F |
| Load Features | L/C/R |
| Four Quadrant Powers | Four Quadrant Powers |
| **FUNDAMENTAL** | |
| Phase Voltage | V_A, V_B, V_C, VLN_AVG |
| Line Voltage | V_AB, V_BC, V_CA, VLL_AVG |
| Current | I_A, I_B, I_C, I_AVG, I_SYS |
| Line Current | I_AB, I_BC, I_CA, ILL_AVG |
| Power | P_A, P_B, P_C, P_SYS |
| Reactive Power | Q_A, Q_B, Q_C, Q_SYS |
| Apparent Power | S_A, S_B, S_C, S_SYS |
| Power Factor | PF_A, PF_B, PF_C, PF |
| **MAX/MIN** | |
| Frequency | F_Max, F_Min |
| Phase Voltage | Va_Max, Va_Min, Vb_Max, Vb_Min,<br>Vc_Max, Vc_Min, Vln_AVG_Max, Vln_AVG_Min, |
| Line Voltage | Vab_Max, Vab_Min, Vbc_Max, Vbc_Min,<br>Vca_Max, Vca_Min, Vll_AVG_Max, Vll_AVG_Min, |
| Current | Ia_Max, Ia_Min, Ib_Max, Ib_Min,<br>Ic_Max, Ic_Min, I_AVG_Max, I_AVG_Min, |
| Power | Pa_Max, Pa_Min, Pb_Max, Pb_Min, Pc_Max, Pc_Min ,Psys_Max,Psys_Min |
| Reactive Power | Qa_Max, Qa_Min, Qb_Max, Qb_Min, Qc_Max, Qc_Min ,Qsys_Max, Qsys_Min |
| Apparent Power | Sa_Max, Sa_Min, Sb_Max, Sb_Min, Sc_Max, Sc_Min ,Ssys_Max,Ssys_Min |
| Power Factor | PFa_Lead_Max, PFb_Lag_Max,<br>PFc_Lead_Max, PFsys_Lag_Max,<br>PFa_Lead_Min, PFb_Lag_Min,<br>PFc_Lead_Min, PFsys_Lag_Min,<br>PFa_Lag_Max, PFb_Lag_Max,<br>PFc_Lag_Max, PFsys_Lag_Max,<br>PFa_Lag_Min, PFb_Lag_Min,<br>PFc_Lag_Min, PFsys_Lag_Min, |
| Unbalance | Max Voltage Unbalance,<br>Min Voltage Unbalance,<br>Max Current Unbalance,<br>Min Current Unbalance, |
| **ENERGY** | |
| Active Energy | Ep_imp, Ep_exp, Ep_total, Ep_net , Epa_imp, Epa_exp, Epb_imp, Epb_exp, Epc_imp, Epc_exp, Ep_q1, Ep_q2, Ep_q3, Ep_q4, Epa_q1, Epa_q2, Epa_q3, Epa_q4, Epb_q1, Epb_q2, Epb_q3, Epb_q4, Epc_q1, Epc_q2, Epc_q3, Epc_q4 |
| Reactive Energy | Eq_imp, Eq_exp, Eq_total, Eq_net, Eqa_imp, Eqa_exp, Eqb_imp, Eqb_exp, Eqc_imp, Eqc_exp, Eq_q1, Eq_q2, Eq_q3, Eq_q4, Eqa_q1, Eqa_q2, Eqa_q3, Eqa_q4, Eqb_q1, Eqb_q2, Eqb_q3, Eqb_q4, Eqc_q1, Eqc_q2, Eqc_q3, Eqc_q4 |
| Apparent Energy | Es_imp, Es_exp, Es_total, Es_net, Esa, Esb, Esc,<br>Es_q1, Es_q2, Es_q3, Es_q4, Esa_q1, Esa_q2, Esa_q3, Esa_q4, Esb_q1, Esb_q2, Esb_q3, Esb_q4,<br>Esc_q1, Esc_q2, Esc_q3, Esc_q4 |

## FUNCTION LIST

| | |
|---|---|
| **DEMAND** | |
| Current Demand | Dmd_IA, Dmd_IB, Dmd_IC, Dmd_ IN<br>Dmd_IA_Max, Dmd_IB_Max, Dmd_IC_Max, Dmd_ IN_Max |
| Power Demand | Dmd_Psum, Dmd_Qsum, Dmd_ Ssum<br>Dmd_Pa, Dmd_Qa, Dmd_ Sa<br>Dmd_Pb, Dmd_Qb, Dmd_ Sb<br>Dmd_Pc, Dmd_Qc, Dmd_ Sc<br>Dmd_Psys_Max, Dmd_Qsys_Max, Dmd_ Ssys_Max<br>Dmd_Pa_max, Dmd_Qa_max, Dmd_ Sa_max<br>Dmd_Pb_max, Dmd_Qb_max, Dmd_ Sb_max<br>Dmd_Pc_max, Dmd_Qc_max, Dmd_ Sc_max |
| **HOUR** | |
| Device Run Time | Hours, Minutes |
| **POWER QUALITY** | |
| Voltage THD | THD_Va, THD_Vb, THD_Vc |
| Current THD | THD_Ia, THD_Ib, THD_Ic |
| Current TDD | TDD_Ia, TDD_Ib,TDD_Ic |
| Individual Harmonics | Harmonics 2nd to 127rd (50Hz or 60Hz) |
| | Inter-harmonics |
| Voltage Crest Factor | Crest Factor |
| Current K Factor | K Factor |
| Voltage Flicker | Flicker_a, Flicker_b, Flicker_c (10 minutes and 2 hours) |
| **SEQUENCE** | |
| Voltage/Current Sequence | Positive Sequence, Negative Sequence, Zero Sequence |
| Voltage Unbalance | U_unbl |
| Current Unbalance | I_unbl |
| Aggregation | VLN,VLL,I,P,Q,S,Harmonics,Interharmonics,unbalnce parameters<br>(150/180-cycle, 10Minutes, and 2 hours) |
| **PHASE ANGLES** | |
| Voltage/Current Phase Angles | Voltage Phase Angle, Current Phase Angle |
| **STATISTICS** | |
| MAX with Time Stamp<br>MIN with Time Stamp | Each Phase of V & I<br>Total of P, Q, S, PF & F<br>Demand of I1, I2, I3, IN, P, Q, & S<br>Each Phase THD of V & I<br>Unbalance Factor of V & I |
| **ALARM** | |
| Over/Under Limit Alarm | V, I, P, Q, S, PF, V_THD & I_THD<br>Each Phase and Total/Average<br>Unbalance Factor of V& I<br>Load Type<br>Analog and Digital Input of Each Channel<br>Demand of I1, I2, I3, P, Q & S<br>Reverse Phase Sequence |
| **WAVEFORM CAPTURE** | |
| Voltage and Current Waveform | Voltage Sag, Voltage Dip, Voltage Swell, Voltage Interruption, Unbalance Voltage,<br>Transient Voltage, Current Sag, Current Swell, Unbalance Current, Manual Trigger |
| **POWER QUALITY EVENT LOGGING** | |
| Power Quality Event with Time Stamp | Voltage Sag, Voltage Dip, Voltage Swell, Voltage Interruption, Unbalance Voltage,<br>Transient Voltage, Current Sag, Current Swell, Unbalance Current, Manual Trigger |
| **DATA LOGGING** | |
| Up to 15 Data Logger | |

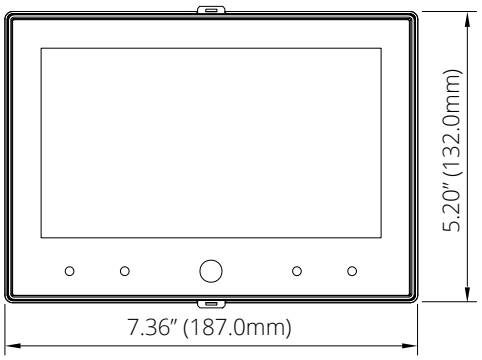
## FUNCTION LIST

| | |
|---|---|
| **TIME OF USE** | |
| Energy/Max Demand | Ep_net,Eq_net,Es, Net_Pdemand_Max, Net_Qdemand_Max, S_demand_Max, |
| **INPUT AND OUTPUT** | |
| Digital Input (DI) | 4 Digital Input |
| Digital Output (DO) | 1 Digital Output |
| **I/O MODULE (EXTENSION)** | |
| Switch Status (DI) | Digital Input |
| Power Supply for DI | 24V DC |
| Relay Output (RO) | NO, Form A |
| Digital Output (DO) | Photo-MOS |
| Pulse Output (PO) | By Using DO |
| Analog Input (AI) | 0 (4) – 20mA, 0 (1) – 5V |
| Analog Output (AO) | 0 (4) – 20mA, 0 (1) – 5V |
| **COMMUNICATION** | |
| Ethernet Ports | 2 Ports(100BASE-TX): RJ45 connector, CAT5/5e/6/6a cable. |
| Wi-Fi | 1 Ports (802.11 b/g/n 2.4GHz/5GHz) |
| RS485 | 1 Ports: Baud rates of 9600 to 115200, pluggable screw terminal connector |
| USB | 1 Port |
| IRIG-B | 1 Port |
| **DISPLAY MODULE (OPTIONAL)** | |
| LCD | 7″ touchscreen color LCD |

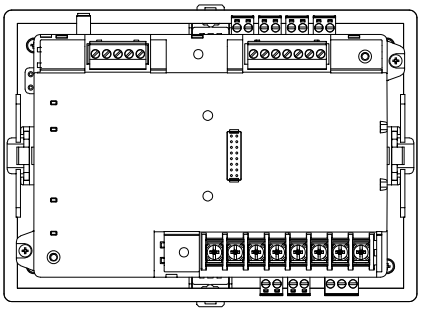
## DIMENSIONS

### Acuvim 3 Dimensions

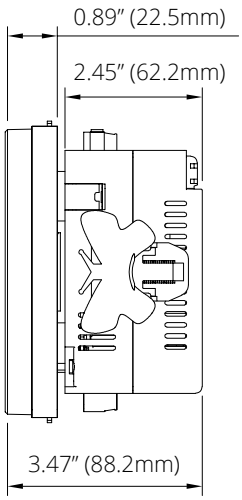
Front View



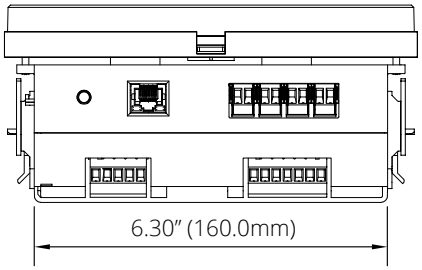

Rear View



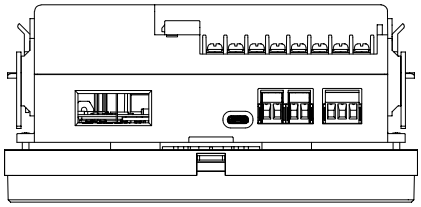
Side View




Top View

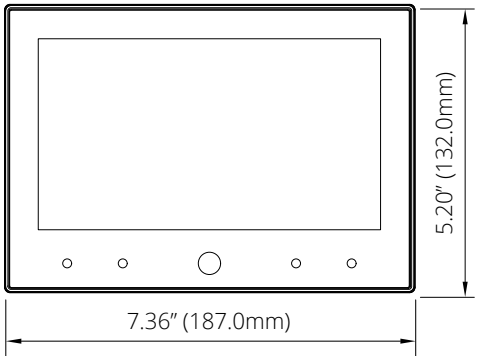



Bottom View

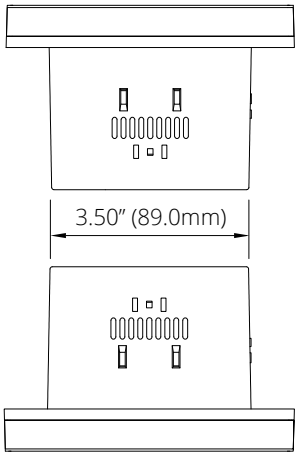


### Acuvim 3 Remote Display Dimensions

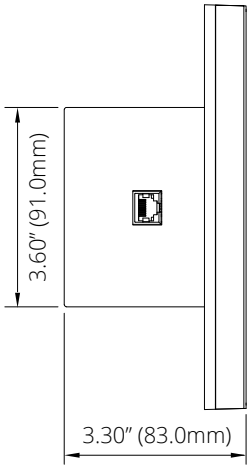
Front View



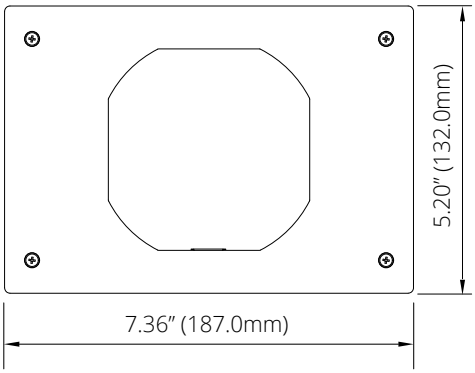

Side Views



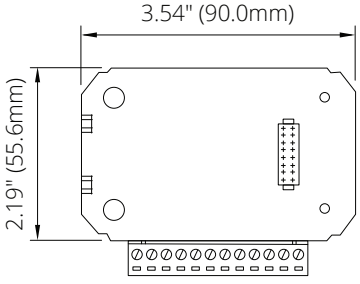

Bottom View

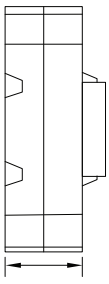



Rear View




### I/O Module Dimensions

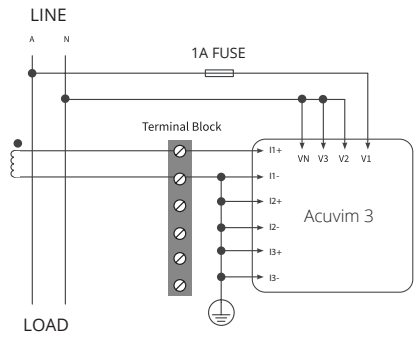


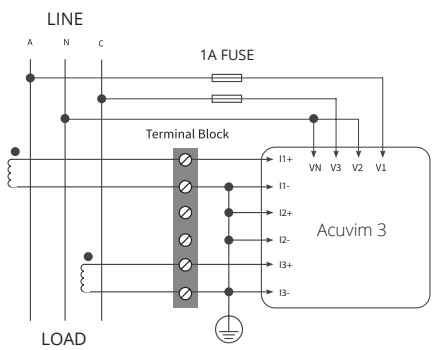
# WIRING DIAGRAMS

## Typical Wiring With 5A/1A CTs

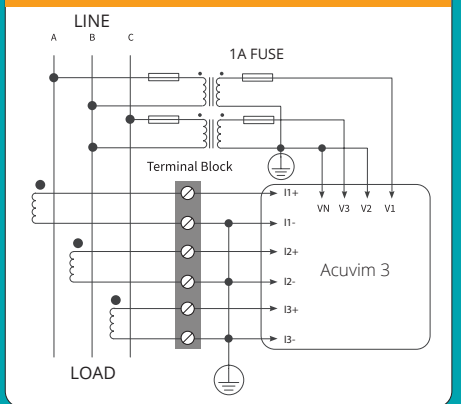
### 1 Element 2 Wire



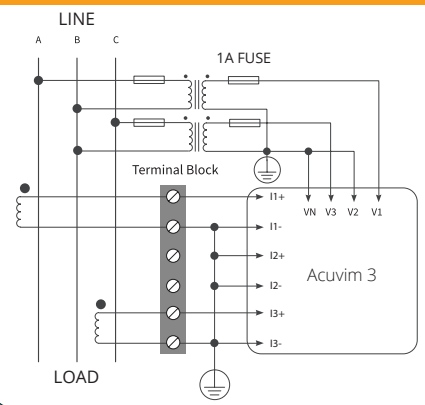

### 2 Element 3 Wire 1 Phase



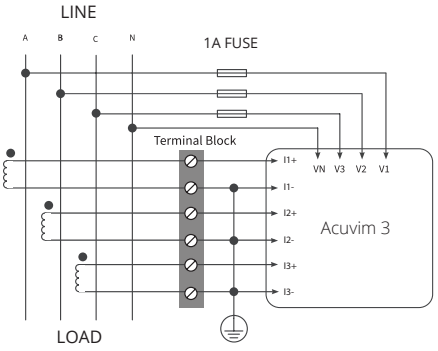

### 2 Element 3 Wire Delta - 3CT




### 2 Element 3 Wire Delta - 2CT

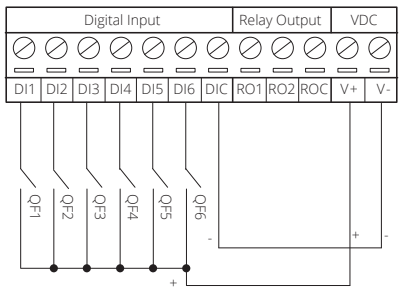



### 3 Element 4 Wire Y

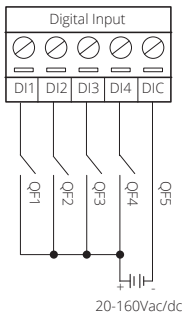



## I/O Module Wiring

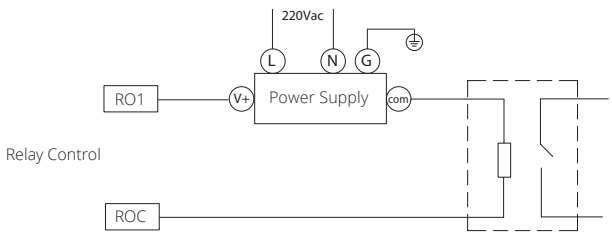
### AXM-IO1



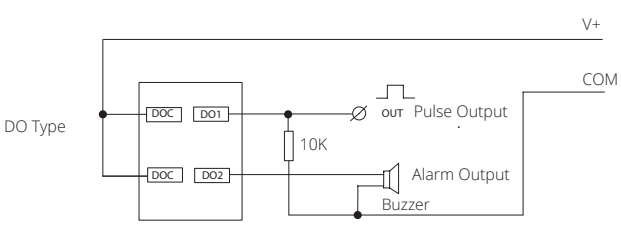

### AXM-IO2/IO3




### Relay Output (RO) Wiring



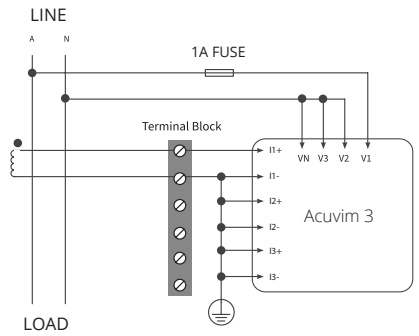

### Energy Output (DO) Wiring



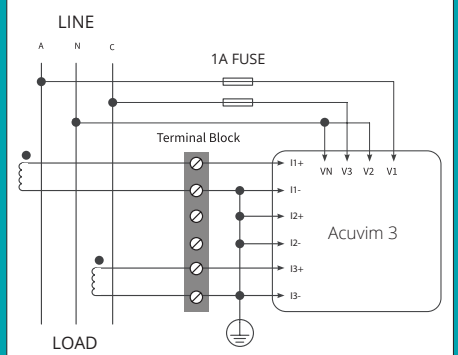
## WIRING DIAGRAMS

### Typical Wiring RCT/mV Current Input

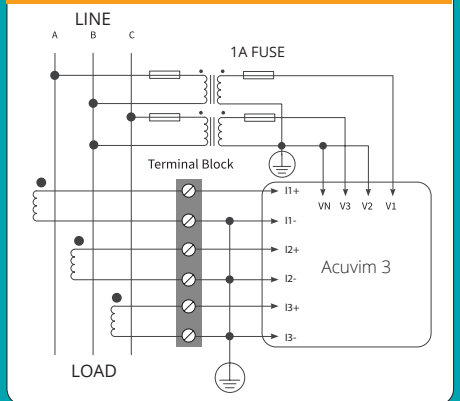
**1 Element 2 Wire**



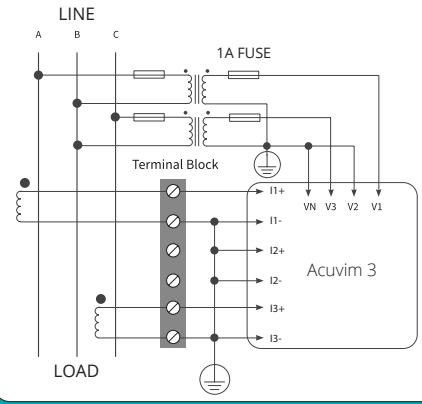

**2 Element 3 Wire 1 Phase**



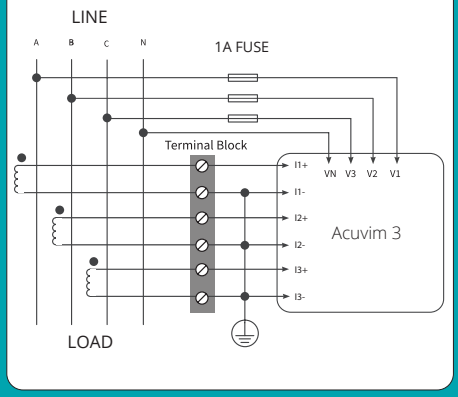

**2 Element 3 Wire Delta - 3CT**




**2 Element 3 Wire Delta - 2CT**




**3 Element 4 Wire Y**



## ORDERING INFORMATION

| Meter Model | Mounting Option | Current Input | Power Supply | Measurement Canada Application |
|---|---|---|---|---|
| **Acuvim 3:** Advanced Power Quality Meter | **D**: Panel Mount with LCD Display | **5A**: 5A/1A *(Input Field Selectable)* | **P1**: 100~415Vac, 50/60Hz, 100~300Vdc | **MC**: Measurement Canada Applications |
| | **M**: DIN rail mount without LCD | **mV**: 333mV and Rogowski Coil *(Input Field Selectable)* | **P2**: 20~60Vdc | **Blank**: For other application |
| **Ordering Example:** | **Acuvim-3-M-5A-P1** | | | |
| | **Acuvim-3-D-mV-P2-MC** | | | |

| I/O Module *(Optional)* | Logic Module | Input/Output Type |
|---|---|---|
| AXM-IO1 | 1 | |
| | 2 | |
| **Ordering Example:** | **AXM-IO1-1** | |
| AXM-IO2 | 1 | **A**: 4~20mA |
| AXM-IO3 | 2 | **B**: 0~20mA |
| | | **C**: 1~5V |
| Note: | | **D**: 0~5V |
| **Ordering Example:** | **AXM-IO3-1B** | |

| Accessories *(Optional)* | |
|---|---|
| **Acuvim 3 Remote LCD Display** | ACUVIM-3-REM-DISP |

1. Refer to the I/O Module table.
2. Acuvim 3 support up to 3 external I/O modules.
3. No more than 2 of the same I/O modules may be attached to the meter (e.g. two AXM-IO2). The same two I/O modules must have a different logic number.

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Revision Date: June 2024 Version: 1.0.4
*Specs Subject To Change Without Notice.*

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