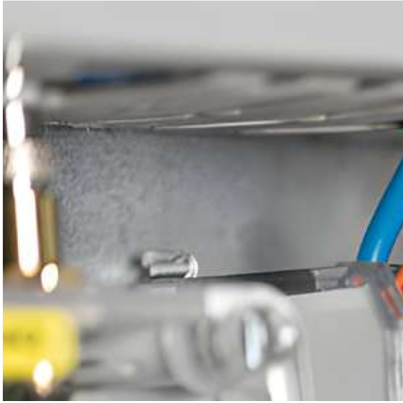



PECTECH



ENERGY METERS



MID
ENERGY
METERS



AC/DC
ENERGY
METERS



ENERGY
METERS FOR
ROGOWSKI
PROBES



POWER
QUALITY

THE BEST SOLUTIONS
are the simplest ones, just
have the right tools



SPLIT
CORE CTs



You
Tube 

Who We Are

We provide instrumentation and sensors for measurements on plants, machine tools, buildings and wherever there is the need to acquire and monitor processes and energy consumption.

PECTECH distributes interfaces for automation, devices and solutions for the measurement, monitoring and analysis of your energy consumption.

We have available in stock a wide choice of split core and solid core current transformers, Rogowski probes that can be matched to your network analyzers, or you can get the best solutions from our experts.

PECTECH's ability to discover new products on the international market, in order to meet new needs in new markets, allows us to always be one step ahead.

We also provide solutions for PV market:

- STRING MEASUREMENT
- CURRENT TRANSFORMERS
- ENERGY METERS
- GRID PROTECTIONS
- SURGE PROTECTIONS



Each measure requires an instrument...

THE **BEST SOLUTIONS** ARE THE SIMPLEST
ONES, JUST HAVE **THE RIGHT TOOLS**

choosing PECTECH means ensuring
easy-to-install, innovative and reliable tools
and interfaces, ready to be integrated
into your project.

PECTECH also manages in stock:

- ✓ **MID certified energy meters** in single-phase version with direct insertion, three-phase with direct insertion or with external CT, all with RS485 Modbus RTU serial communication.
- ✓ **Ultra compact network analyzers** with universal CT input and serial communication.
- ✓ **Network analyzers for OEM market**, low cost, with integrated serial communication.
- ✓ **AC/DC Current Transformers Modules for monitoring electrical parameters** such as: phase loss, wrong sequence or phase failure, phase unbalance, over or under current, over or under load, over or under frequency and over or under voltage, voltage and power monitoring.



scan the qrcode
TO DISCOVER MORE



Devices and Solutions for Energy measurements



Single and Three phase

MID ENERGY METERS

EV Chargers installation Energy meters

PV installation Energy meters



MV Sub-Stations Three phase Energy meters

High performances Energy meters with many communication protocols

Class A and S certified Power Quality Energy meters



AC/DC Single phase Energy meters

Compact Universal current input Three phase energy meter



Three phase DIN Rail Energy meters with display, RS485 Modbus RTU, for 1A/5A, 333mV and Rogowski coils CTs



SINGLE PHASE ENERGY METER MID APPROVED

SINGLE PHASE ENERGY METER DIRECT CONNECTION

UP TO 45A - RS485 **MOD. PRO1**

UP TO 100A - RS485 **MOD. PRO2**



Available measure : Current, Voltage, Active, Reactive and Apparent Power, Total and Bidirectional Energy, Freq. , Power Factor, Totalizer for energy bidirectional power measurement, SO pulse.

	PRO1-MOD	PRO2-MOD
DIMENSIONS	140x63x18 mm	141x63x35,8 mm
MOUNTING	DIN Rail	
ACCURACY	COMPLY TO EN50470-1/3 CLASS B	
ACTIVE ENERGY	+/- 1 %	
MINIMUM CURRENT	0,05 Ib	
BASE CURRENT (Ib)	5 A	
MAX CURRENT (Imax)	45 A	100 A
WORKING CURRENT	0,4%Ib...Imax	
OVER CURRENT	30 I max per 0,01 sec	
NOMINAL VOLTAGE	(Un) 230V AC	
WORKING VOLTAGE	195...253 V AC	
OVER VOLTAGE	4KV per 1 minute	
PULSE OUTPUT	Configurable (T-on: 45ms, T-off: 270ms, T-t: 140us)	
FREQUENCY	45...55Hz	
HUMIDITY	<= 75% (< 95% for stock)	
WORKING TEMPERATURE / STOCK TEMPERATURE	-25°C...55°C / -30°C...70°C	-40°C...70°C / -40°C...70°C
CONSUMPTION	<2W...<10VA	
IP PROTECTION	IP 51	
CONFIGURATION	Infrared button on the front / Optic interface via usb (configuration software)	

THREE PHASE ENERGY METER MID APPROVED

THREE PHASE ENERGY METER DIRECT CONNECTION - RS485 **MOD. PRO380**

THREE PHASE ENERGY METER WITH EXTERNAL CTs - RS485 **MOD. PRO380-S CT**



Available measure : Current, Voltage, Active, Reactive and Apparent Power, Total and Bidirectional Energy, Freq. , Power Factor, Totalizer for energy bidirectional power measurement, SO pulse output.

	PRO380 DC MOD	PRO380-S CT MOD
DIMENSIONS	140x63x70 mm	
MOUNTING	DIN Rail	
ACCURACY	COMPLY TO EN50470-3	
ACTIVE ENERGY	+/- 1 %	
MINIMUM CURRENT	0,05 Ib	
BASE CURRENT (Ib)	5 A	1,5 A
MAX CURRENT (Imax)	100 A	6 A

THE MID DIRECTIVE - Transposed at national level with the Italian Legislative Decree 22/2007 is a new approach directives adopted by the European community. The objective of this approach is the definition of shared and common technical rules which allow instruments to move freely within the community. The instruments covered by this standard bear the the CE marking, and it is important emphasise thate **the directive relates exclusively to the design and production of measuring instruments.**



scan the qrcode
TO DISCOVER MORE





ENERGY METER MID LINEA AMBITION

THREE PHASE ENERGY METER DIRECT
CONNECTION 65A **MOD. AMBITION 4PS / 4PU**

THREE PHASE ENERGY METER WITH
EXTERNAL CTs **MOD. AMBITION 2PU**

Available measures : Current, Voltage, Active, Reactive and Apparent Power, Total and Bidirectional Energy, Freq. , Power Factor, Totalizer for energy bidirectional power measurement, SO pulse output.



BLUETOOTH /WIFI CONNECTION

FOR CONFIGURATION, VISUALISATION AND
DATA DOWNLOAD

MODBUS COMMUNICATION PROTOCOL RTU and MBUS

IN THE SAME DEVICE

PUSH-IN CONNECTORS

WAGO Cage Clamp

AMBITION TCP/IP

Gateway Modbus TCP-IP for Ambition
meters via UART port



	4PU	4PS	2PU
MOUNTING	Din rail mounting		
DIMENSIONS	92x72x63 (4DIN)		92x35x63 (2DIN)
ACTIVE ENERGY	COMPLY TO EN50470-3 CLASS B		
MAXIMUM CURRENT	63A		by external 1A/5A CTs
CONNECTIONS	Input/Output from bottom	Input from bottom, Output from the top	CTs connections from bottom
NETWORKS TYPES	3P4W/3P3W Delta Aron/1P2W		
NOMINAL VOLTAGE	3*230/400V ±20%		
PULSE OUTPUT SO	10.000/2.000/1.000/100/10/1/0,1/0,01 imp/kWh		
UART CONNECTION	4pin 3,3V - for external modules connection (Bridge RTU/TCP-IP)		
BAUDRATE	1200, 2400, 4800, 9600 (default), 19200, 38400, 57600 and 115200		
BLUETOOTH PROTOCOL	Protocol BLE 4.2 Frequency range Bluetooth 4.0: 2402 - 2480 MHz (40 CH)		

THREE PHASE ENERGY METER PEC-EM3-CT SERIE

THREE PHASE ENERGY METER FOR
1A/5A CURRENT TRANSFORMERS MOD. PEC-EM3-5A

THREE PHASE ENERGY METER FOR
333mV CURRENT TRANSFORMERS MOD. PEC-EM3-333

THREE PHASE ENERGY METER FOR
ROGOWSKI PROBES MOD. PEC-EM3-RC

PEC-EM3-CT is PECTECH's family of energy meters for din bar mounting that supports different types of current transformers, with 1/5A secondary, with 333mV secondary and for Rogowski probes (50-85-100mV/kA@50Hz).

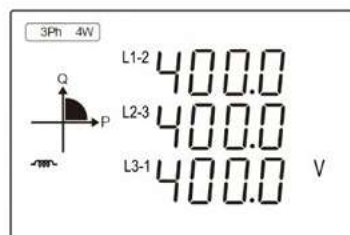
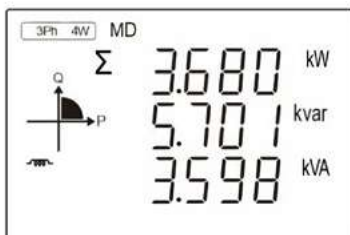
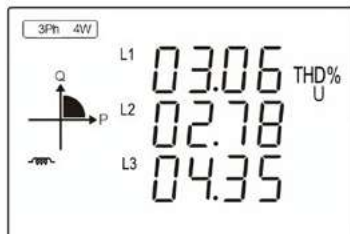
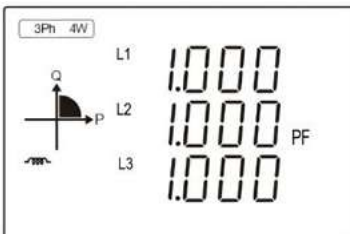
Active Energy measurement in Class 0.5S according to IEC62053-22.

It features a high price/performance ratio.



MAIN COMMON FEATURES

- 4 Din modules with backlit display
- Auxiliary power supply 80~300 Vac / 100~420 Vdc
- ACTIVE ENERGY **Class 0,5S** according to IEC62053-22
- MODBUS RTU** (baud 38400 max)
- Voltage measurement 30 to 300 Vac (LN), 30 to 500 Vac (LL)
- THD measurement for Voltage and Current channels
- Graphical display of Reactive load type (Capacitive/Inductive)
- Max Demand and separate measurements for individual phases
- Programming via built-in capacitive keypad



THREE PHASE ENERGY METER

PEC-EM3-ETH-CT SERIE

THREE PHASE ENERGY METER FOR **1A/5A**
CURRENT TRANSFORMERS MOD. PEC-EM3-ETH-5A

THREE PHASE ENERGY METER FOR **333MV**
CURRENT TRANSFORMERS MOD. PEC-EM3-ETH-333

THREE PHASE ENERGY METER FOR
ROGOWSKI PROBES MOD. PEC-EM3-ETH-RC



PEC-EM3-ETH-CT adds TCP-IP communication to the RS485 Modbus RTU already present on the instrument.

The **Master Gateway** functionality can be activated from the instrument (up to 3 simultaneous clients) in this mode: multiple instruments can be connected via RS485 to the Energy Meter PEC-EM3-ETH and then interrogated via TCP-IP.

Network settings are easily set from the display.

PEC-EM3-CT / PEC-EM3-ETH-CT

The unit can monitor and display the following parameters of a single phase two wire(1P2W), three phase three wire(3P3W) or three phase four wire(3P4W) system.

MEASURED PARAMETERS

VOLTAGE AND CURRENT

Phase to neutral voltages 30 to 300V a.c. (not for 3P3W supplies).
Voltages between phases 30 to 500V a.c. (3P3W supplies only).
Percentage total voltage harmonic distortion(THD%) for each phase to neutral (not for 3P3W supplies).
Percentage voltage THD% between phases (3P3W supplies only).
Current THD% for each phase.
Power factor and Frequency and Max. Demand
Frequency in Hz

POWER MEASUREMENT

Active power/Reactive power/Apparent power
Maximum demanded power since last demand reset
Maximum neutral demand current, since the last demand reset

ENERGY MEASUREMENT

Import/Export active energy and reactive energy
Total active energy/Total reactive energy

MEASURED INPUTS

Voltage inputs through 4-way fixed connector with 2.5mm² stranded wire capacity. Single phase two wire(1P2W), three phase three wire(3P3W) or three phase four wire (3P4W) unbalanced. Line frequency measured from L1, L2 and L3 voltage.
Three current inputs (six physical terminals) with 2.5mm² stranded wire capacity for connection of external CTs.

SERIAL CONNECTION

PEC-EM3-CT version: RS485 Modbus RTU up to 38400 Baud.
PEC-EM3-ETH-CT version: RS485 Modbus RTU and RJ45 Modbus TCP-IP (configurable gateway function) up to 3 clients.

MECHANICS

DIN rail dimensions 72 x 100 x 66 mm (W X H X D)
Mounting: DIN rail (DIN 43880)
Sealing: IP51 (indoor)
Material: Self-extinguishing UI94 V-0

BIDIRECTIONAL ENERGY METER

QE-POWER-T SERIE



CURRENT INPUT 5A
CURRENT INPUT 333MV
ROGOWSKI INPUT

QE-POWER-T is a
BIDIRECTIONAL ENERGY
METER with RS485 Modbus
 RTU communication integrated.



SCT PECTECH
 serie



MAIN FEATURES

ULTRA COMPACT

17,5mm width only

UNIVERSAL

current transformer input

CONFIGURABLE

by free software or via RS485

MODBUS

RS485 Modbus RTU output

ALARMS

Digital contact / Alarm contact
 configurable

BIDIRECTIONAL ENERGY METER VERSIONS

FEATURE	STD	PLUS	PRO (Power Quality)
POWER SUPPLY	10...40 V DC o 19...28 V AC - 50/60Hz		
VOLTAGE INPUT	Direct connection up to 500V RMS maximum (40...70Hz)		
OUTPUT	RS485 Mobus RTU and SPST Digital Contact (<40 V, <100mA)		

OTHER COMMON FEATURES

Accuracy (@25°C, 50Hz)

VOLTAGE (Un: 230/400 V)	+/- 0,5% RDG (10...100% Un)
CURRENT (In= 5A)	+/- 0,5% RDG (5...100% In)
FREQUENCY	+/- 0,1 Hz da 40 a 70Hz
POWER	ACTIVE : +/- 0,5% RDG REACTIVE : +/- 0,5% RDG
ENERGY	ACTIVE: Class C according to EN50470-1/3 or Class 0,5 S according to EN62053-22 REACTIVE: Class 0,5 S according to EN62053-24

ABSORPTION < 500mW @ 24V DC

SAMPLING RATE 6400 Hz @ 50Hz

BAUDRATE RS485 from 1200...115200 Baud (standard 9600)

THERMAL DRIFT < 100ppm/°C

WORKING TEMPERATURE -10°C...+60°C

STORAGE TEMPERATURE -20°C...+85°C

RELATIVE HUMIDITY 10... 90% not condensing

ALTITUDE Up to 2000 m s.l.

FIXING SYSTEM On DIN rail , ready to be mounted on T-BUS system

CONNECTIONS n°4 removable connectors: 2, 3, 6 poles 3,5mm step,
4 poles 5,08mm step

DIMENSIONS 93 x 17,5 x 68,3 mm (without connectors)

WEIGHT 60 gr.

DIP-SWITCH 2 poles (Baudrate and Address) for connection with the configuration software FACILE

LED N°5 : Power (Green), Comm (Yellow), TX e RX (Red),
Digital contact (Green)

STANDARD REFERENCES EN61000-6-2; EN61000-6-4; EN61000-4-2; EN61000-4-3; EN61000-4-4; EN61000-4-5; EN61000-4-6; EN61010-1; EN61010-2-30

THREE PHASE ENERGY METER ACUREV 1313 SERIE

THREE PHASE ENERGY METER FOR **1A/5A**
CURRENT TRANSFORMERS MOD. ACUREV1313-5A

THREE PHASE ENERGY METER FOR **333mV**
CURRENT TRANSFORMERS MOD. ACUREV1313-333

THREE PHASE ENERGY METER FOR
ROGOWSKI COILS MOD. ACUREV1313-RCT

MAIN FEATURES

- 100-415Vac 50/60Hz /100-300Vdc power supply
- Class 0,5S according to IEC62053-22
- MODBUS RTU and BACnet-MS/TP
- Voltage measurement 400Vac LN /690Vac LL
- UL certified
- SunSpec compatible for photovoltaic inverter integration



MEASURES			
PARAMETERS	ACCURACY	RESOLUTION	RANGE
Active Energy	0.5%	1Wh	0 – 999999999
Reactive Energy	0.5%	1varh	0 – 999999999
Apparent Energy	0.5%	1VAh	0 – 999999999
Voltage	0.5%	0.1	10V – 1000KV
Current	0.5%	0.001A	10mA – 50000A
Active Power	0.5%	1W	-99 – 99 MW
Reactive Power	0.5%	1var	-99 – 99 Mvar
Apparent Power	0.5%	1VA	-99 – 99 MVA
Power Factor	0.5%	0.001	-1000 – 1000
Frequency	0.2%	0.01Hz	45 – 65 Hz
Power Demand	0.5%	1Wvar/VA	99MW/Mvar/MVA
Current Demand	0.5%	0.001A	10mA – 5000A



ACUREV1313-5A



ACUREV1313-333



ACUREV1313-RCT

AcuRev 1313

ACUREV 1313

OTHER FEATURES

Protection of terminals, tamper-proof electronic sealing possible

Verification of correct FASI installation and TA direction

Configurable pulse output

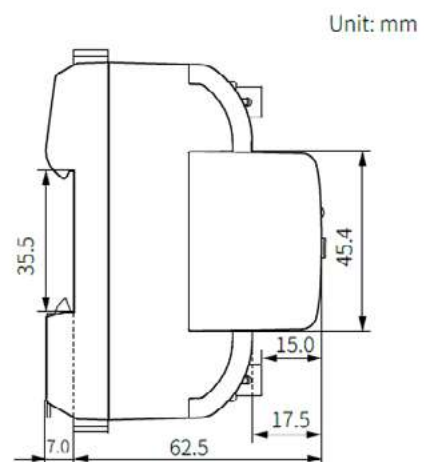
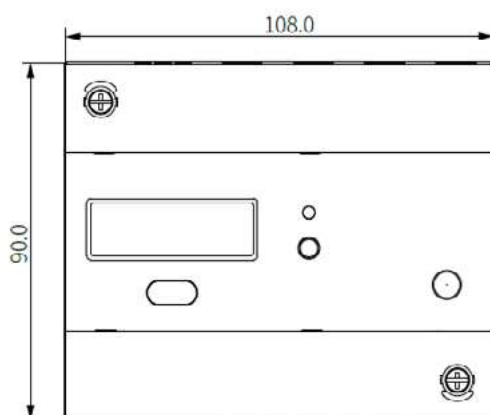
Free configuration software via RS485 simple and intuitive

Choice of parameters to be displayed

4 different rates can be set

Working temperature: -25°C...+70°C

Measurement Side <input checked="" type="radio"/> Primary Side <input type="radio"/> Secondary Side	Wiring Method <input checked="" type="radio"/> 3LN <input type="radio"/> 1LL <input type="radio"/> 1LN <input type="radio"/> 2LL	Number of Energy's Decimal Places <input type="text" value="2"/>
		Output Mode of RO <input type="text" value="Control Output"/>
CT1 <input type="text" value="100"/>	CT2 <input type="text" value="333"/>	PT1 <input type="text" value="400.0"/>
		PT2 <input type="text" value="400.0"/>
Pulse Constant <input type="text" value="1000"/> 1 Pulse=100/1000 kWh/kvarh		<input checked="" type="checkbox"/> Wiring Check Enabled
Pulse Width <input type="text" value="60"/> ms		
<input type="button" value="Save"/> <input type="button" value="Load"/> <input type="button" value="Update Device"/>		



THREE PHASE ENERGY METER ACUVIM-L SERIE

THREE PHASE ENERGY METER FOR **1A/5A**
CURRENT TRANSFORMERS MOD. ACUVIM-CL-5A

THREE PHASE ENERGY METER FOR
333mV CURRENT TRANSFORMERS /
ROGOWSKI COILS MOD. ACUVIM-CL-MV

ACUVIM-L is a multifunctional energy meter that supports different types of current transformers.

It is characterised by high measurement accuracy while being low cost. Easily integrated and expandable with optional add-on modules that enable its datalogging and communication capabilities.



Acuvim-CL class 0,5S

HARMONICS ANALYSIS UP TO 31ST - CLASS 0,5S

Acuvim-EL class 0,2S

HARMONICS ANALYSIS UP TO 63RD - CLASS 0,2S

MAIN FEATURES (basic version)

Power supply 100-415Vac 50/60Hz / 100-300Vdc or 20-60Vdc

Class 0,5S/Class 0,2S according to IEC62053-22

MODBUS RTU and BACnet-MS/TP

Voltage measurement 400Vac LN / 690Vac LL

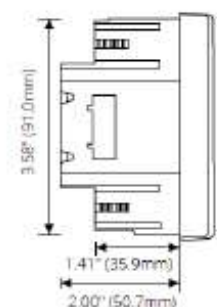
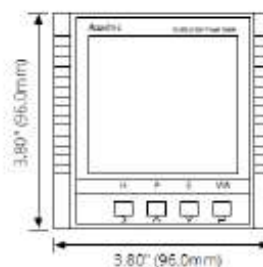
Version without Display (Transmitter)

8MB internal memory - Datalogging function

Expansion module for I/O

AXM-WEB Communication Module

Din rail mounting bracket



OPTIONAL - FEATURES	
AXM-WEB2-FOLC AXM-WEB2	Dual Ethernet 10M/100M BaseT
	MODBUS-TCP/IP
	DNP 3.0 Over IP
	IEC 61850 2nd Edition
	SNMP V3
	BACnet-IP
	HTTP/HTTPs Webserver
	HTTP/HTTPs Push, FTP data post
	sFTP server
	SMTP Email
	MQTT
	NTP
	WiFi 2.4Ghz
8GB Memory	
AXM-PROFI	PROFINET
	Fibra Ottica LC
	PROFIBUS-DP/VO Protocol
	Work as PROFIBUS Slave, Baud Rate Adaptive, up to 12M
AXM-RS485	Model 1: Input Bytes: 32, Output Bytes: 32
	Model 2: Input Bytes: 64, Output Bytes: 2
	PROFIBUS Standard According to EN 50170 Vol. 2
	Additional RS485



	FEATURE	AXM-I01	AXM-I02	AXM-I03
MODULI I/O	Digital Input	6	4	4
	Digital Output	—	2	—
	Relay Output	2	—	2
	Analogue Input	—	—	2
	Analogue Output	—	2	—
	Power Supply	24Vdc	—	—

POWER QUALITY - CLASS A

Advanced Power Quality meter

ACUVIM 3 is a CERTIFIED POWER QUALITY Class A network analyser.

This type of instrument guarantees the highest level of precision and sampling speed in order to perform a complete parameter analysis.



**1/5A CURRENT TRANSFORMERS
333MV CTs AND ROGOWSKI COILS**



THE ENERGY METER COMPLY TO THE FOLLOW STANDARDS:

IEC 61000-4-30 Class A
METERING OF SPLIT-SECOND
POWER MALFUNCTIONS

IEC 61557-12 Class 0.1
ACCURACY COMPLIANT FOR
VOLTAGE/CURRENT RMS

**IEC 62053-22 Class 0.1s and ANSI
C12.20 Class 0.1**
ACCURACY FOR ACTIVE ENERGY

IEC 62053-24 Class 0.5s
ACCURACY FOR REACTIVE ENERGY

MULTI-PROTOCOL SUPPORT
MODBUS-RTU, MODBUS- TCP/IP,
BACNET-IP, DNP3 TCP, IEC 61850,
& SNMP

PMU (IEEE C37.118)
FOR FAST AND RELIABLE
SYNCHROPHASOR
MEASUREMENT

Waveform Capture detection
UP TO 512 SAMPLE/ CYCLE AND
STORED IN COMTRADE FORMAT

Time of Use (TOU)
WITH 8 TARIFF AND UP TO 12
BILLING PERIODS

**FAST LOG CAPTURE WITH 1 CYCLE
RMS**

**Up to 100 dataloggers with user-
selectable logging interval and
parameters**

Data Post
HTTP/HTTPS, SFTP, & EMAIL

POWER QUALITY REPORTING AND ANALYSIS

Power quality event detection for:

- Voltage dip/swell/interruption based on 1 cycle RMS
- Current dip/swell based on 1 cycle RMS
- Transient overvoltage based on 32ksp/s

Power quality event to trigger email notification, or DO/RO

Up to 65535 power quality event logs in circular buffer

Waveform capture:

- Triggered by power quality or manually
- User configurable sample rate up to 512 sample/cycle
- User configurable duration (pre-trigger + post-trigger) from 2 cycles to 2sec @ 512 sample/cycle
- COMTRADE format, download from webpages/SFTP, or post via HTTP(s), FTP, SFTP

Fast Log capture:

- Triggered by power quality or manually
- Capture with 1 cycle RMS
- User configurable duration, same as waveform capture
- Fast log report, download from webpages/SFTP, or post via HTTP(s), FTP, SFTP

Reporting:

- EN50160 compliance report
- IEEE 519 compliance report
- ITIC (CBEMA) Curve
- SEMI-F47 Curve

ACUVIM 3

MEASUREMENTS

VOLTAGE RMS	IEC 61557-12 Class 0.1, 10 400 VLN, 690 VLL
CURRENT RMS	IEC 61557-12 Class 0.1
	1A nominal: 10mA to 2A
	5A nominal: 50mA to 10A
FREQUENCY	1mHz accuracy, 40 to 70Hz, exceeds requirement of IEC 61557-12 Class 0.02
POWER & POWER FACTOR (for each phase and system)	Active power: IEC 61557-12 Class 0.1
	Reactive power: exceeds requirement of IEC 61557-12 Class 1
	Apparent power: IEC 61557-12 Class 0.2
	Power factor: exceeds requirement of IEC 61557-12 Class 0.5

SUPPORTED COMMUNICATION PROTOCOLS:

Modbus-RTU via RS485

Dual Ethernet

WiFi

Modbus-TCP/IP

HTTPs Webserver

HTTP/HTTPs Post

BACnet-IP

FTP Post

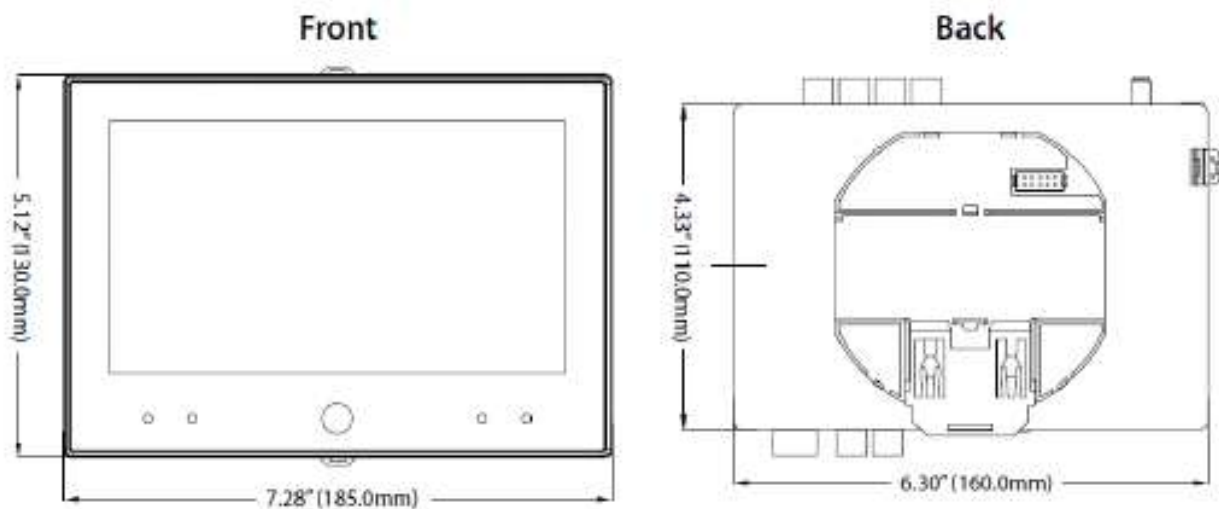
SMTP

SNTP

DNP over IP

IEC 61850

PMU



MULTICHANNEL ENERGY METER



WIFI - MQTT - DATALOGGER - MODBUS TCP/IP

The **ACUREV 2110** is a multi-channel energy meter that can simultaneously measure up to **6 three-phase loads or 18 singlephase loads**.

It supports current transformers with 333mV secondary and Rogowski probes.

It is equipped with Datalogger functionality (8Gb) to acquire not only measured parameters but also pulses from WATER - GAS and Electricity meters.



MAIN FEATURES

18 Digital Inputs, 6 Digital Outputs

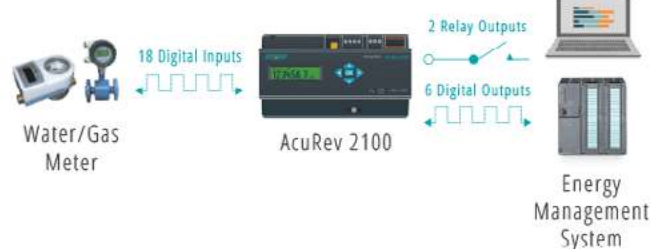
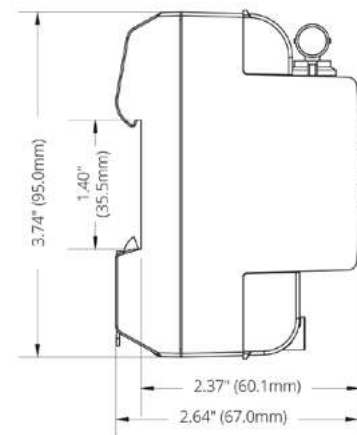
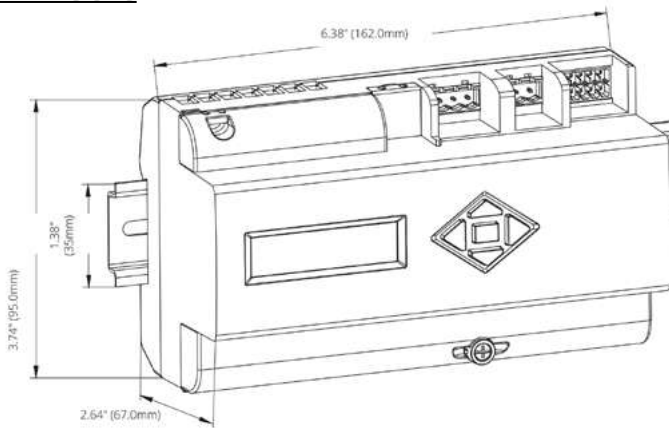
2 Relay outputs

Communication: Modbus-RTU, Modbus-TCP/IP, BACnet-IP, BACnet MS/TP, SNMP, SNTP, SMTP, MQTT, HTTP/HTTPs Post, FTP, RSTP, IPv6

Measurement Class: 0,5S IEC 62053-22 compliant



DIMENSIONS



CURRENT TRANSFORMERS

PECTECH has various models of Current Transformers to meet every need.

The wide range of current transformers includes:

10mm, 16mm, 24mm bore openable executions, 36mm up to 600A

Busbar openable executions with secondary 1A/5A or 333mV

Rogowski (also custom-made) and Mini probes
Rogowski 36mm diameter

Integrators for Rogowski probes

Solid Core CTs from 50 to 6000A with 5A secondary

Split Core Hall sensors for DC measurements

SPLIT CORE CT



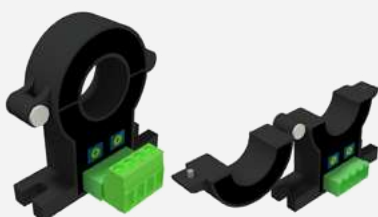
SOLID CORE



Rogowski coils



Rogowski Integrators



Hall's Effect Sensors

USE AND SELECTION OF THE RIGHT CURRENT TRANSFORMER

Often, when measuring electrical consumption, there is a tendency to underestimate the choice of current transformer.

This can cause inconvenience during installation by the operator, up to to the introduction of measurement errors that can affect the energy measurement of our energy meter. The choice depends on the type of application you have to deal with, a machine rather than a retrofit on an existing panel, or the need for a solution that will fit well even without an inspection.

PECTECH stocks various models of Current Transformers to be combined with your network analysers or to be connected to those we manage.



scan the qrcode
TO DISCOVER MORE



AC/DC ENERGY METER

QI-POWER SERIE



Current measures: **50A / 300A**
 Voltage measures: **100V / 1000V**



UL MARK for:
QI-POWER-485, QI-POWER-485-300



Comply to CE standards

EN61000-6-4/2006+ A1 2011, EN61000-6-2/2005, EN61010-1/2010

TECHNICAL FEATURES

Absorption < 1,3 W	Resolution 12 bit	Working Temp. 15°C...+65°C	Storage Temp. -40°C...+85°C
Temperature Coefficient < 200 ppm/°C	Humidity 10...90 % not condensing	Isolation 3 kV on bare wire for Current measurement 4 kV on Voltage input (reinforced isolation between Power supply and RS485)	
Altitude up to 2000 m s.l.m.	Dimensions 46,1 x 63 x 26,4 mm (terminal excluded)	Terminals Removable step 3,5mm (n°1 of 4 poles, n°2 of 2 poles)	Weight 80 gr./ 370 gr.
Filling Epoxy resin	Protection Index IP20	Enclosure Material PBT, colore grigio	
LED n°1 Yellow (fixed = Power on, blinking= in communication)		Dip Switch n°2 (for address and baudrate for configuration software FACILE connection)	

QI-POWER-485 QI-POWER-485-LV	QI-POWER-485-300 QI-POWER-485-300-LV
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via Dip-Switch	Modbus Address: 0 or 1 (Address 1 for communication with configuration software)	
	Baudrate: 9600 or 38400	
via Software	Energy measurement saved on Flash memory	
	Frequency measurement on Current channel	
	Modbus Address	
	Baudrate: 2400...115200	
	CT and VT ratio setting	
	Cut off on Current measurement (default 250mA)	Cut off on the current measurement (default 1,5A)
	Cut off on Power measurement (default 0 W)	
	Measurement Filter (Fast...Accurate)	
	Modbus Delay answer setting	

BIDIRECTIONAL SINGLE PHASE ENERGY METER with integrated SERIAL RS485 MODBUS RTU.

FEATURES

DC power and energy measurement
 LV version for low voltages (max 100V)
 Configurable via free software and via RS485

Applications: Current and Voltage measurement
 string, battery control, Datacenters, Energy
 consumption monitoring, Telecommunications.

	QI-POWER-485	QI-POWER 485-300	QI-POWER 485-LV	QI-POWER 485-300-LV
Current Measurement	50 A AC/DC	300 A AC 400 A DC	50 A AC/DC	300 A AC 400 A DC
Voltage Measurement	800 V AC 1000 V DC		80 V AC 100 V DC	
Power Supply	9...30 V DC Protection against polarity reversal and overtemperature			
Accuracy	@ 25°C up to 400Hz Voltage, Current, Active Power: < 0,5% f.s. Frequency: +/- 0,1 Hz on the reading Energy: +/- 1% on the reading Vpk, Ipk: +/- 5% f.s.			
Type of measure	RMS (monopolar) or DC			
Output	RS485 MODBUS RTU			
AVAILABLE MEASUREMENT via RS485	I rms, V rms			
	I picco, V picco			
	P: Active Power [W]			
	Q: Reactive Power [VAR]			
	S: Apparent Power [VA]			
	FREQUENCY			
	Cosφ			
	THD			
	Energy [kWh]			
Bidirectional Energy Totalizer (kWh), positive and negative				



scan the qrcode
 TO DISCOVER MORE



ENERGY CONSUMPTION MONITORING



WIBEEE is the patented solution from Smilics Technologies for monitoring energy consumption in the Home & Building sector with its quick mounting system that does not require the user to be disconnected.

No additional space is required inside the existing switchboard.



Data are transmitted via Wifi and can be supported on the Wibeee portal or sent via Modbus TCP, HTTP, XML to your platform.

The **WIBEEE ONE** version is available in Single-Phase, Three-Phase without Neutral, Three-phase with Neutral positioned on the right or left.

In addition to WiFi connectivity, an optional version with NB-IoT is also available. **WIBEEE BOX** is supplied with one or more split core Current Transformers to monitor both domestic consumption and the photovoltaic system with the same instrument.

Through the APP or via the Web you can see the production of your plant, be notified by e-mail of any malfunctions or lack of production. An easy and inexpensive solution to keep your plant under control.



WIBEEE BOX



PHOTOVOLTAIC PLANTS MONITORING



With the WIBEER NEST APP it is possible to control both the production of the domestic photovoltaic system and the unbundled consumption of household appliances.

The APP allows you to quickly check production and can warn you in the event of a prolonged production failure.

You can take advantage of this functionality by dedicating an input of the single-phase WIBEER BOX to the current reading on the thermomagnetic circuit breaker of the Photovoltaic.

Several WIBEER instruments can be added controlled by the same user. In the case of three-phase photovoltaic system, a dedicated device.



scan the qrcode
TO DISCOVER MORE





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