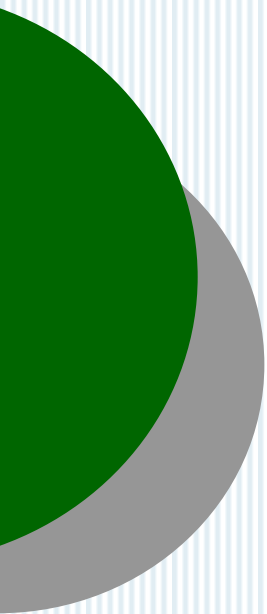


# Accessory Catalog

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*'Accessories for Power Quality Monitoring'*

## AC/DC Current Probes and True RMS Clamp-Meters - *Accurate, Rugged, Versatile and Reliable*

### AC/DC Current Probes: CP1 SERIES



- Two models Multimeter (CP 1000) and Oscilloscope (CP 1005)
- Measurement of AC / DC and complex current waveforms
- 1000A Range (CP 1000) 100A / 1000A Ranges (CP 1005)
- Excellent Accuracy with high resolution
- Wide Bandwidth with low phase shift
- DC Auto Zero and Auto Power Off
- Compact lightweight design
- Output voltages 1mV/A and 10mV/A (CP 1005)
- Superior noise rejection for power electronics applications

### AC/DC Current Probes: CP3 SERIES



- Two models Multimeter (CP30) and Oscilloscope (CP35 and CP305)
- AC / DC low current measurement down to mAmps
- Excellent Accuracy with 1mA resolution (CP30/CP35)
- DC Auto Zero and Auto Power Off
- Compact lightweight design
- Broad bandwidth and low phase shift for power and harmonics measurement
- Superior noise rejection for power electronics applications

### AC/DC Current Probes: CP4 SERIES



- AC/DC low current measurement down to mAmps
- Auto ranging 4/40A with 1/10mA resolution (CP41)
- Auto ranging 40/400A with 10/100mA resolution (CP410)
- Auto ranging 400/1000A with 100mA/1A resolution (CP1010)
- Conformance to IEC1010 and EMC standards
- Auto Zero and Auto Power Off
- Low battery indicator
- Compact lightweight design

## Flexible AC Current Probes - *Accurate, Thin and Flexible*

### ACP 1000 SERIES



- Three selectable current ranges 10/100/1000A
- 3 Standard conductor diameters 50/70/100mm
- Easy to insert probe in confined spaces
- Multimeter and Oscilloscope versions
- Wide dynamic range 100mA to 1000A AC RMS
- 1000V, CAT III, Pollution degree 2
- Excellent response to rapid current changes
- External power supply option (ACP 1005 only)
- Compact lightweight design
- No magnetic hysteresis, saturation or non linearity

### ACP 2000 SERIES



- Three ranges 20/200/2000A
- 3 Standard conductor diameters 50/70/100mm
- Easy to insert probe in confined spaces
- 2 Models ACP 2005 (100kHz) and ACP 2015 (1MHz)
- Wide dynamic range 200mA to 2000A AC RMS
- 1000V, CAT III, Pollution degree 2
- Excellent response to rapid current changes
- External power supply option
- Compact lightweight design
- No magnetic hysteresis, saturation or non linearity

## Flexible AC Current Probes - *Accurate, Thin and Flexible*

### ACP 3000 SERIES



- Three Selectable current ranges 30/300/3000A
- Wide dynamic range 100mA to 3000A AC RMS
- Battery powered with external power option (ACP3005)
- 2000 hours continuous battery life
- 1000V, CAT III, Pollution degree 2
- IP 65 (Probe head only)
- Compact lightweight design
- No magnetic hysteresis, saturation or non linearity
- ROHS and WEEE Compliant

### ACP 1000\_3 SERIES



- Three ranges 10/100/1000A
- 3 Standard conductor diameters 50/70/100mm
- Easy to insert probe in confined spaces
- 2 Models Single Phase and Three Phase
- Wide dynamic range 100mA to 1000A ACRMS
- 1000V, CAT III, Pollution degree 2
- Excellent response to rapid current changes
- External power supply option
- Compact lightweight design
- No magnetic hysteresis, saturation or non linearity

### SINGLE PHASE - ACP SERIES



- Three Selectable current ranges 30/300/3000A
- Wide dynamic range 100mA to 3000A AC RMS
- Battery powered with external power option (ACP3005)
- 2000 hours continuous battery life
- 1000V, CAT III, Pollution degree 2
- IP 65 (Probe head only)
- Compact lightweight design
- No magnetic hysteresis, saturation or non linearity
- ROHS and WEEE Compliant

### THREE PHASE - ACP SERIES



- 30/300/3000A and 60/600/6000A models
- Wide dynamic range 100mA to 6000A AC RMS
- Battery powered with external power option
- 1000 hours continuous battery life
- UL Approved, ROHS and WEEE Compliant
- 1000 hours continuous battery life
- 1000V, CAT III, Pollution degree 2
- IP 65 (Probe head only)
- Compact lightweight design
- No magnetic hysteresis, saturation or non linearity
- Single and three phase models
- UL Approved, ROHS and WEEE Compliant

## Ground Current Detector

### Ground Current Detector - PQ60

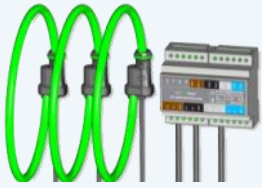


Ground Current Detector CT: 1MV/1MA, 1MV/ 1AMP ( 1 Ma to 60 Amp)

# CT

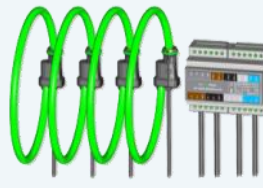
## Flexible AC Current Probes for DIN Rail Mounting

### DRP 503/18



The new DRP 503/18 is a 3 Phase Flexible AC current Probe utilizing the Rogowski principle, with 3 channel integrator housed in DIN Rail Mounted Enclosure. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas and with large conductors.

### DRP 504/18



The new DRP 504/18 is a 4 Phase Flexible AC current Probe utilizing the Rogowski principle, with 4 channel integrator housed in DIN Rail Mounted Enclosure. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas and with large conductors.

### DRM 503/4



The new DRM 503/4 is a 3 Phase MICRO-flex AC current Probe utilizing the Rogowski principle, with 3 channel integrator housed in DIN Rail Mounted Enclosure. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas and with large conductors.

### DRM 504/4



The new DRM 504/4 is a 4 Phase MICRO-flex AC current Probe utilizing the Rogowski principle, with 4 channel integrator housed in DIN Rail Mounted Enclosure. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas and with large conductors.

## AC Current Probes

### ACP 200 M3



The ACP 1000 SM current probe has been designed for use with multimeters, recorders, power analyzers, safety testers etc. for accurate non intrusive measurement of AC current. Using the latest transformer technology, the SM 1000A/1A can measure currents from 100mA to 1500A over a frequency range of 30Hz to 10kHz.

### ACP 200 M3



The ACP 200 M3 current probe is based on AC transformer technology for use in measurement of AC current.

## Indoor CT

### PQ4LN (01,05,10) – D Option



Precision Split Current Transformers  
Low Input Amps 1, 5, 10A with Low Voltage Output  
0.4" Window:

- Accuracy 0.5%
- Phase Shift <60' Typical
- Removable Leg - Easy To Install
- 1A, 5A, 10A to 150A Ranges
- Wide Bandwidth 50Hz to 1KHz
- Excellent Low Current Sensitivity

### PQLCF (01,05,10) – D Option



Clamp on Current Transformers  
Low Input Amps 1, 5, 10A with Low Voltage Output  
0.4" Window:

- Accuracy 0.5%
- Phase Shift <30' Typical
- Clamp on CT Easy To Install
- 1A, 5A, 10A to 100A Ranges
- Wide Bandwidth 45 Hz to 5 KHz
- Excellent Low Current Sensitivity
- UL 916 listed

# Security and Other Accessories

## Security Kits & Coil-Locks

### Basic Security Kit - SE001



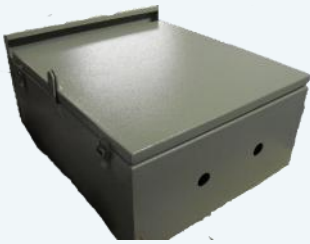
Kit includes bracket and cable with combination lock.

### 2 Locking Brackets - SE002



- 2 Locking brackets
- Lockable cable (1.2 M) with combination lock that secures the brackets and the cable

### PQ Weather Proof 100 - SE003



- Weatherproof housing for portable instruments
- High security, rugged, steel, utility grade housing
- 19x19" and 11" deep, includes mounting bracket

### Coil-Locks



- Momentary Voltage Sag Range: Provides continuous output voltage to hold-in relay and contactor coils for all IEEE Standard P1159 defined voltage sags to approximately 25% of nominal
- Transient Surge Protection: Provides transient voltage surge suppression for the relay/contactor coil circuit

## Other Accessories

### 5KVP Voltage Probes - KV001



- Connecting directly to 4160V
- The 5KVP allows direct connection to the primary voltage. Bypassing the PT avoids any phase shift and linearity problems introduced by it. It also allows direct connection at any point of interest whether PTs already exist or not.

### Accuracy Verification Adapter - AD001



Accuracy verification and test module for PX-5/4400/Pv440. This module allows a user to easily connect to the voltage and current channels with a voltage standard and verify the accuracy of the instrument.

### CF Card - CF001



- 4 GB CF Data Card
- Compatible with portables only

### Card Reader - CF002



Card reader for CF card

### Safety Connection Kit Bag - BA001





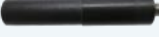











- 7 zippered mesh pockets
- Suitable for safety connection kits/ accessories
- Easy hanging loop
- Size 10.5" x 8"

### TR Converter - TR001




















TR Converter to Banana Plug

## Safety Connection Kits

Product	Part No.	Sample	Description
<b>Adaptor</b>	AdaSpM4		4 mm banana (female) jack to M4 x 6 mm threaded stud adapter (yellow) IEC 1010-1/1010-2-031
	AdaSpM3		4 mm banana (female) jack to M3 x 4 mm threaded stud adapter (red) IEC 1010-1/1010-2-031
	AdaSpM3.5		4 mm banana (female) jack to M3.5 x 6 mm threaded stud adapter (black) IEC 1010-1/1010-2-031
	Ada3032		4 mm banana (female) jack to 4.3 mm spade lug adapter (red) IEC 1010-1/1010-2-031
	Ada3034		4 mm banana (female) jack to 4.3 mm / 6.3 mm spade lug adapter (black) IEC 1010-1/1010-2-031
<b>Magnet Adaptor</b>	606Mg8-IEC2		Insulated 4 mm banana (female) jack to 8 mm diameter magnet right-angle adapter. 1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, 4 A
	606Mg9-IEC2		Insulated 4 mm banana (female) jack to 9 mm diameter magnet right-angle adapter. 1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, 4 A
	606Mg10-IEC2		Insulated 4 mm banana (female) jack to 10 mm diameter magnet right-angle adapter 1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, 4 A.
	606Mg11-IEC2		Insulated 4 mm banana (female) jack to 11 mm diameter magnet right-angle adapter 1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, 4 A
	606Mg6.6-IEC3		Insulated 4 mm banana (female) jack to 6.6 mm diameter magnet right-angle adapter. 1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, 4 A
<b>Alligator Clip</b>	5004/LM-IEC		Alligator clip w/ 4 mm banana (female) jack (socket) 1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, 20 A
	5066-IEC		Premium IEC insulated alligator clip w/ 4 mm banana (female) jack (socket), large opening-elephant type, 1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, 36 A
	P213		Alligator clip 1" opening CAT III 1000 V, CAT III 600 V, 10 A
	P202		Long alligator clip CAT III 1000 V, CAT III 600 V, 10 A

## Safety Connection Kits

Product	Part No.	Sample	Description
<b>Alligator Jaw</b>	6007-IEC		Alligator clip w/ 4 mm banana (female) jack (socket) flexible shaft. 1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, 6 A
<b>Voltage Clip</b>	P201		Micro-pincer voltage clip (actual length 5 inches)
	203		Long wire piercing voltage clip (6 in, 15 cm)
	P214		Insulated larger Wire Piercer (4", 10 cm long) CATIII 1000V, 10 A Recommended size is 2mm to 4mm diameter
<b>Vampire Clip</b>	P209		Vampire voltage clip, 4 inch 10 cm. Insulation piercing
	6003		Piercing clip w/ 4 mm banana (female) jack (socket) 1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, 10 A. (Vampire clip)
<b>Lead</b>	2310 Serie		Straight 4 mm banana (male) plug to straight 4 mm banana (male) plug lead, 1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, up to 36 A
	2060 Serie		Straight 4 mm banana (female) jack to straight 4 mm banana (female) jack lead, 1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, pollution degree 2, up to 36 A
	P211		Flexible fused lead, male/female IEC Cat IV 600V Cat III 1000V
<b>Fuse</b>	P212		Box of 10 spare fuses 1000v/ 500ma, 10ka clearing
<b>Fuse Holder</b>	P206-4		4 Fuse holder for test leads 100KA clearing with 600v/ 0.25 amp fuse 100K amp clearing
	P210		Fuse holder F/F for test leads 1000v/ 500ma, 10ka clearing
<b>Custom Tool</b>	P208		Custom tool to change fuse
<b>Jumpers</b>	P218-5		Set of 5 stackable jumpers 25cm (black)
<b>Stackable Plug</b>	P217		Ø4mm stackable plug, user replacement
<b>Voltage Test Leads</b>	P205-5		Set of 5 voltage test leads, red, black, white, blue, green (72 inch, 182 cm)
	P205-5-5M		Set of 5 voltage test leads, red, black, white, blue, green (16 feet, 5 meters)

## Training Courses

Power Quality (Thailand) Co., Ltd (PQT) offers both fundamental and advanced trainings for all levels of engineering and business aspects of Power Quality. PQT also conducts product training for Dranetz products and software training for PQView and Dran-view. It is organized as needed. PQT annually conducts advanced user training for customers. It aims to share case studies and solution that customers are face, and also to recommend or suggest in setting, monitoring, connection for power system.

### Power Quality Practitioner™ Training

- Power Quality Practitioner™ for Power Consumers
- Power Quality Practitioner™ for Electrical Utilities

“**Practitioner** is one who brings an art or science to full realization”

Practical Power Quality best practices and training for facility engineers, technicians, senior electrical workers. Engineers & technicians in customer service departments and technical support departments.

#### Objective:

Increase the knowledge and effectiveness of these teams to work with Power Quality, Power Reliability and Energy Efficiency issues internally or with Customers. Increase their effectiveness at documenting and resolving Power Quality and energy conservation issues in the most cost effective manner.

### PQView Training

**PQView** is a multi-component software system developed by Electrotek Concepts® and EPRI® for building and analyzing databases of power, power quality, and energy measurements. PQView integrates data from digital relays, digital fault recorders, power quality monitors, smart meters, and SCADA historians into an open relational database. PQView Fault Analysis Modules automatically combine electric power systems recordings with data from SCADA, GIS, and network topology to provide estimated fault location and to send an alarm to the operations personnel, reducing time to locate faults by hours.

### Dran-View Training

**Dran-View** is a Windows-based software package that enables power professionals to simply and quickly visualize and analyze power monitoring data. Not only is it a snap to navigate, it delivers automated functionality, and incorporates powerful analytical capabilities and customizable options to meet the needs of each individual user. Dran-View is successfully used by thousands of customers around the world, and has become the industry-leading power management software tool. Dran-View is available in two versions: the Pro version, which has a powerful feature set, and the Enterprise version which has even more features and functionality.



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