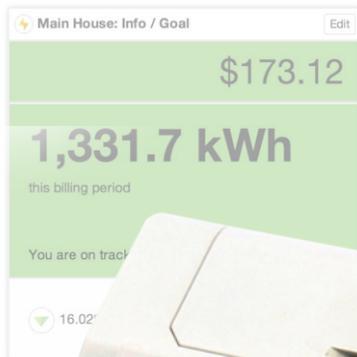
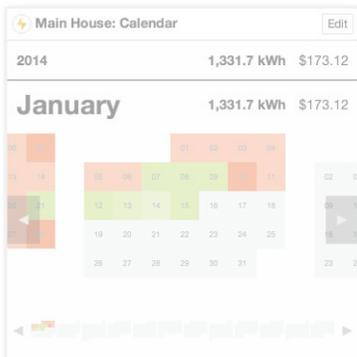
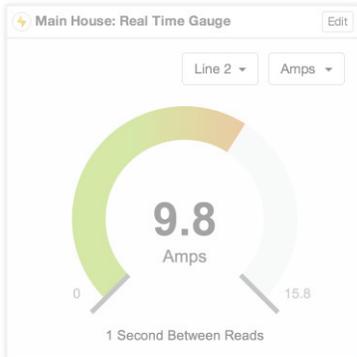


Product Catalog 2015





NEW PRODUCT!

EKM-Omnimeter Pulse UL v.4

Our most advanced universal smart meter, now UL and cUL Listed. The Omnimeter Pulse UL v.4 can count the pulses from up to 3 different pulse output devices. These could be pulses from our Pulse Output Water Meters and Pulse Output Gas Meters or from any other unpowered dry contact pulse output device. It also has two controllable outputs that can be used to turn external relays on or off. The Omnimeter Pulse UL v.4 is also a universal revenue-grade kWh meter. It can meter systems ranging from single-phase 120V 2-wire or single phase 120/240V 3-wire, 120V to 240 volts, 3-phase, 3-wire 120 to 240 volts or 3-phase 4-wire, 50/60Hz , 50/60 Hz. Supports CTs from 100A to 5000A. RS-485 Communications.



EKM-Omnimeter Pulse v.4

Our most advanced universal smart meter has the ability to count pulses from up to three pulse-output devices, and the ability to control two relays. Turn circuits on and off remotely. The Omnimeter Pulse v.4 can count the pulses from up to 3 different pulse output devices. These could be pulses from our Pulse Output Water Meters and Pulse Output Gas Meters or from any other unpowered dry contact pulse output device. It is also a universal revenue-grade kWh meter. It can meter systems ranging from single-phase 120V 2-wire or single phase 120/240V 3-wire, 120V to 480 volts, or 3-phase 3-wire 120 to 400 volts or 3-phase 4-wire 120 to 480V, 50/60Hz , 50/60 Hz. RS-485 Communications.



EKM-Omnimeter II UL v.3

The Underwriters Laboratories (UL) approved version of our Universal EKM-Omnimeter. This meter is both UL and cUL (Canada UL) Listed, and has been tested to CSA standards. Single-phase 120V 2-wire or single phase 120/240V 3-wire, 120V to 240 volts, 3-phase, 3-wire 120 to 240 volts or 3-phase 4-wire, 50/60Hz , 50/60 Hz. Supports CTs from 100A to 5000A. This meter will work with any system in common use throughout the world, up to 240 volts. RS-485 communications.



EKM-Omnimeter I v.3

This is our most popular universal smart meter. It is truly the one meter that can meet all of your metering needs. Revenue Grade, Single-phase 120V 2-wire or single phase 120/240V 3-wire, 120V to 480 volts, 3-phase 3-wire 120 to 400 volts or 3-phase 4-wire 120 to 480V, 50/60Hz , 50/60 Hz Supports CTs from 100A to 5000A. This meter will work with any system in common use throughout the world, up to 480 volts. RS-485 communications.



EKM-25IDS

This is a very popular product if you are metering your North American 120/240V household power and you want a simple read off the face kWh meter. Compact, very easy to install design. Simple DIN-rail mounting. Wires pass through 3/8+" diameter tubes in the meter body--Will accept #2AWG insulated wire. The only electrical connection is made by 2 small screws which penetrate the wire insulation and pick up power--less than 1 watt--to power the meter.



EKM-15IDS

This is a great revenue grade kWh submeter for metering any 120 volt load to a high accuracy required for billing purposes or just for tracking usage. This meter provides an excellent value if you are looking for a simple, read-off-the-face meter. Very reliable and easy to install. This is the 120 volt version of our EKM-25IDS which is a 120/240 volt 3-wire meter.



EKM-15E

This very compact, but accurate little meter is ideal for metering individual 120V circuits or groups of circuits. Multiple wires can be passed through the CT and current passing through them is totaled. Convenient DIN-rail mounting. This meter has a pulse output. Connect a pulse counter up to 200 feet away from the meter to be able to remotely know your kWh consumption. This meter comes with one 14mm external CT.



EKM Push Communication System

We are proud to introduce an entirely new communication system with unprecedented capabilities and ease of use. All you have to do is plug it in--the EKM Push gateway handles all of the meter communication, parses the meter data, and inserts the reads into a central database. This completely eliminates all of the configuration issues of firewalls, dynamic IP, and having a computer running all the time to make it happen. We feel that we have designed a rock solid metering communications system that is scalable, and with the reliability needed to build a business around.



EKM Push Pro Communication System

The EKM Push Pro is the over-engineered version of the already dependable EKM Push hardware. Both Push versions function identically and, quite honestly, the engineering of the Pro version should be considered overkill for most installations. It has a hardened power supply, opto-isolated RS-485 communications, and reinforced components. If the EKM Push is the industrial solution, then the EKM Push Pro is the space-flight-grade solution. The Pro version has been designed for large installations and critical infrastructure where reliability is paramount.



EKM iSerial TCP/IP to RS-485 Serial Converter

Our EKM iSerial allows flexible access to your meter data. Any computer, either on a local area network(LAN) or connected via the internet from anywhere in the world, can read and configure the meters using the EKM Dash software. A string of up to 256 daisy chained meters can connect to an ethernet network through this device, and are then ready to be read remotely. No on-site computer is necessary.



EKM Blink - RS-485 to USB Converter

Our USB Converter, translates the RS-485 signal from the meters to a signal that can be understood by your computer and our EKM Dash software. This is an inexpensive device that will work well if you are fine reading your meters locally on site. You can connect up to 256 meters on 4000 feet of twisted pair wire to this converter. This converter uses a chip that is manufactured by FTDI, which is much more robust, reliable, and easier to use than competing chips. This converter blinks red when a successful read has been made.



EKM 485Bee - Zigbee Wireless Adapter for RS-485 Network

The EKM-485Bee replaces the hardwired links in your RS-485 network with wireless Zigbee mesh links. Use this device if you are unable to run wires between meters or between meters and the communication converter. You can have one meter per 485Bee or 256 meters per 485Bee to make a mesh network. (Requires at least two per wireless setup)



8 Digit LCD Pulse Counter

Our battery powered pulse counter keeps track of one of our pulse output devices. With this device installed, you will know how much water, gas, or electricity you are using from up to 200 feet away from your pulse output meter.



EKM RS-232 Serial to RS-485 Converter

The EKM RS-232 Serial to RS-485 Converter is suitable for older PCs with built in serial ports or Macs with serial port adapters, such as KeySpan USA-19HS. No other software or drivers are needed. Works with all of our RS-485 smart meters including our smart v.2 meters, and our v.3 and v.4 Omnimeters.

Current Transformers (CTs)



EKM Solid-core CT 200A 13mm Hole Diameter

Our 13 mm Solid Core CT is both economical and very popular with our customers. It is very compact and can measure the current of the majority of residential systems. Each CT comes with 72 inch wire leads. These CTs are extremely accurate down to a few watts. They are rated at 26.6 mA output at full amperage. They are also exceedingly precise at 0.1% accurate.



EKM Split-core CT 200A 13mm Hole Diameter

Easy to Install, simply snap these current transformers around the wires being read. These CTs are so easy to install you may see an overall savings in reduced labor costs to offset the increased price of the split core format. These are very compact and economical for their level of accuracy.



EKM Solid-core CT 200A 15mm Hole Diameter

These CTs are easy to install if you are able to disconnect your wires and slip them through the hole of the CT. These CTs come with wire leads that are 2 meters in length. You will use 1 CT for a single phase 2-wire 120V, or foreign 230V system. 2 CTs with a 120/240V 3-wire system or 3-ph 3-wire system, or 3 CTs with a 3-ph 4-wire system.



EKM Solid-core CT 200A 25mm Hole Diameter

Designed for accuracy and economy. These CTs when combined with our external CT meters will give you the revenue grade accuracy. You can pass multiple wires from the same phase through this CT. As long as the wires are passing in the same direction and are on the same phase, our CTs will measure their combined current accurately. These CTs include black and white wires that are 6 feet in length.



EKM Split-core CT 400A 23mm Hole Diameter

Open-able Split Core CTs are sometimes much easier to install and can be an over all savings in labor costs over Solid Core CTs depending on the degree of difficulty of the installation. Built for precision the Accuracy Class 0.1 CTs are 0.1% accurate for revenue grade submetering.



EKM Solid-core CT 400A 25mm Hole Diameter

Very compact for a 400 amp CT. All of our Current Transformers have an accuracy class of 0.1 (+/- 0.1% accurate). If you are purchasing these CT for use with an EKM-Omnimeter, you can set the Omnimeter CT ratio to 400 amps using the RS-485 interface. If you do not plan to communicate with the Omnimeter using RS-485 be sure we change the CT ratio for you before we ship your order to you.



EKM Split-core CT 400A 32mm Hole Diameter

Our Split Core (open-able) CTs can be a savings overall in the labor cost savings. Simply clip these around the wires being read. Secure them in place with a zip tie. Our EKM Omnimeter can be set internally to be used with 400 amp CTs. If you do not plan to communicate with your Omnimeter, please be sure we set the CT ration to 400 amps for you.



EKM Solid-core CT 600A 45mm Hole Diameter

Meter heavy loads to a high degree of accuracy. Accuracy Class: 0.1 These 600 amp CTs are accurate to 0.1%, and when used with our external CT meters, such as our EKM Omnimeter will give a revenue grade combined accuracy of 0.5%. Works with 50 Hz or 60 Hz power. Use one of these current transformers for 120V or 2-wire systems, 2 CTs for 120/240V 3-wire or 3-phase 3-wire systems, or 3 CTs for 3-phase 4-wire.



EKM Split-core CT 800A 65mm Hole Diameter

Split-core CT (Openable), 800A, 800A:26.6mA, 65mm Hole Diameter, SCT-065-800. Select these 800 amp CTs for ease of installation. If you do not want to disconnect your wires, or if you do not have good access to the wires being read, the split core design may be a labor savings for you. These are 0.1% accurate CTs with a 26.6 mA output. Our line of CTs have superior abilities at measuring the phase angle of AC systems.



EKM Solid-core CT 800A 80mm Hole Diameter

Solid-core CT (Non-Openable), 800A:26.6mA, 80mm Hole Diameter, BCT-080-800. Reliable and well made. These are a good value for their precision. Use these CTs if you have the ability to disconnect the wires you want to read and slip them through the center hole of the current transformer. 26.6 mA output, 0.1% accuracy rating. Our EKM-Omnimeter can be set internally to use 800 amp CTs.



EKM Split-core CT 1500A 100mm Hole Diameter

Large Amperage Heavy Industrial Precision Current Transformers. 1500 amp CTs with a heavy hinge and machined mating surface. Use these CTs in conjunction with our EKM Omnimeter. The CT ratio can be set inside of the Omnimeter to work with these 1500 amp current transformers. 26.6mA output, these CTs are 0.1% accurate. The EKM-Omnimeter and CT combination are tested to 0.5% accuracy.



EKM Split-core CT 3000A 100mm Hole Diameter

Our precision industrial grade 3000 amp CTs have the easy to work with split core design. These CTs are +/- 0.1% accurate, they have enhanced phase angle measuring abilities. These current transformers have a 26.6 milliamp output at their full rated 3000 amps. Each CT can be easily opened up, with no need to disconnect the wires being read. This results in labor savings especially when dealing with large amperage cables.



EKM Split-core CT 5000A 180mm Hole Diameter

Our precision industrial grade 5000 amp CTs have the easy to work with split core design. These CTs are +/- 0.1% accurate, they have enhanced phase angle measuring abilities. These current transformers have a 26.6 milliamp output at their full rated 5000 amps. Each CT can be easily opened up, with no need to disconnect the wires being read. This results in labor savings especially when dealing with large amperage cables.



3/4" Stainless Steel Pulse Output Water Meter (SPWM-075)

Our remote readable 3/4" Stainless Steel Pulse Output Water Meters are a great solution for remotely, or locally, monitoring water consumption. This is a well made, industrial grade, stainless steel(304 grade) water meter. You can use it as a traditional water meter where you read the water consumption off of the face of the meter. It also has the added functionality of being able to connect the pulse output wires to a pulse counting device. This meter produces a pulse for every 1/10 cubic foot (approx. 0.75 gallon, or 2.83 liters) that flows by the meter, these pulses can be then picked up and counted by our pulse counting devices. 3/4 Inch diameter NPT adapters and rubber gaskets are included.



3/4" Stainless Steel Pulse Output Hot Water Meter (HOT-SPWM-075)

Our Remote Readable 3/4" Pulse Output Hot Water Meters have the same specs as our SPWM-075 water meter model, with the sole difference being that it can meter water up to 194°F(90°C).



1.0" Stainless Steel Pulse Output Water Meter (SPWM-100)

Our 1.0" Stainless Steel Pulse Output Water Meters are a great way to monitor water usage, both locally or remotely. This is a well made, industrial grade, stainless steel(304 grade) water meter. You can use it as a traditional water meter where you read the water consumption off of the face of the meter, or you connect the pulse output wires to a pulse counting device for remote readability. This meter produces a pulse for every 0.01m³ (1 pulse = approx. 2.64 gal.) that flows by the meter, these pulses can be then picked up and counted by our pulse counting devices. One inch diameter NPT adapters and rubber gaskets are included.



1.5" Stainless Steel Pulse Output Water Meter (SPWM-150)

Our remote readable 1.5" Stainless Steel Pulse Output Water Meters are a great solution for remotely, or locally, monitoring water consumption. This is a well made, industrial grade, stainless steel(304 grade) water meter. You can use it as a traditional water meter where you read the water consumption off of the face of the meter. It also has the added functionality of being able to connect the pulse output wires to a pulse counting device. This meter produces a pulse for every 0.01m³ (1 pulse = approx. 2.64 gal.) that flows by the meter, these pulses can be then picked up and counted by our pulse counting devices. 1.5 inch diameter NPT adapters and rubber gaskets are included.



2.0" Stainless Steel Pulse Output Water Meter (SPWM-200)

Our remote readable 2.0" Stainless Steel Pulse Output Water Meters are a great solution for remotely, or locally, metering water usage. This is a well made, industrial grade, stainless steel(304 grade) water meter. You can use it as a traditional water meter where you read the water consumption off of the face of the meter. It also has the added functionality of being able to connect the pulse output wires to a pulse counting device. This meter produces a pulse for every 0.01m³ (1 pulse = approx. 2.64 gal.) that flows by the meter, these pulses can be then picked up and counted by our pulse counting devices. Two inch diameter NPT adapters and rubber gaskets are included.

Gas Meters



3/4" Pulse Output Gas Meter (PGM-1)

Read your gas usage remotely too! Our Pulse Output Gas Meters operate like a normal gas meter. They also have the ability to be read remotely. For every cubic foot of gas that is metered, this gas meter produces an electrical pulse. These pulses can be measured and counted by our EKM-25EDSP-N pulse counting electric meter. With this system in place it will be possible to read your gas consumption, either with a computer locally or over the internet from anywhere in the world. You can use this meter to measure natural gas, propane (LPG), air, or any other non-corrosive gas. Simple 2-wire connection between gas meter and kWh meter. No additional power source required.

Enclosures & Mounts



EKM Watertight Enclosure Kit (EKM-EENC)

Tough, polycarbonate, water-tight enclosure, excellent for housing a meter. Or house up to 7 of the small EKM-15E, 18mm wide meters. Holes for conduit connections, etc. need to be made to suit your needs. Cover is gasketed for a water-tight seal. No screws, for mounting, etc. pierce the meter enclosure. DIN-rail included. IP65 and CE rated.



EKM Indoor Enclosure Kit (EKM-IENC)

Our Indoor kit will give you the cleanest looking installation for any indoor application. This kit comes with both the ability to surface mount or to cut-in flush mount your meter. This is a custom designed meter case, the face of the meter is all that is left exposed, so that you can easily read the measured values off of the face of your meter. The kit includes both surface-mount and flush-mount covers, DIN-rail, and mounting hardware for cut-in blind flush-mounting. It also has 2 threaded 1/2" knockout conduit connections on the top bottom and back, for easy and secure conduit connections.



3" DIN Rail Mount

Easily mount your meter using DIN Rail. We always recommend that you mount your electric meters in an enclosure. We supply indoor surface mount or flush mount enclosures, and an outdoor water-tight enclosure. These enclosures both include the DIN Rail piece. If you want to mount your meters in your own enclosure this 3" piece of steel DIN Rail will make your life a lot easier. First fasten the DIN Rail to your enclosure with screws, wire the meter how you like it, and the last step is to snap fit the meter to the DIN Rail. Provides a simple, secure meter mount.



EKM Switch120

This is a power cord that switches 120V AC (up to 15 amps) with a DC control voltage of 3 VDC @ 3mA to 12 VDC @ 30mA. This device gives you the capability to turn your power on/off remotely using a very tiny control voltage! It is big enough to control major loads: pumps, lights, appliances, etc. Each switch can be controlled independently using the EKM Dash by connecting them to Output1 and Output 2 on the Omnimeter Pulse.



EKM Insulation Piercing Connector

A convenient and fast way to safely and securely tap off of an existing line. You can tap off of the middle a line that is from #6 gauge wire to 4/0 cable to feed a 14 AWG to #10 awg wire. You do not have to cut or interrupt the main line. Install with the power shut off to the main line.



EKM Inline Fuse Holder w/ 1 Amp Fuse

We recommend (and UL requires) that the hot lead voltage reference wires be fuse protected with 1 amp fuses. These would be placed inline with voltage reference wires. The fuse holder comes with a 1 amp fuse inside. UL Recognized 250 volt Fuse Holder with 1 amp 250 volt ACC fuse.



EKM Lever Wire Nut

We find these 5 Port Lever Wire Nuts to be useful for a variety of applications. We use them to securely connect high voltage wires together and also for connecting our RS-485 twisted pair data wires together. All 5 ports connect together like a wire nut. To install: un-clamp all of the levers, then insert your wires, then clamp them back down up to 600V, 20 amps at 300 v, 28 AWG to 12 AWG wire, UL Listed.



EKM Tamper-proof Meter Seal

This is a one-time cable lock intended to prevent tampering with our meters. This prevention is most useful for landlords and property managers who depend on accurate metering to reliably bill their tenants for their usage. Our meters are seal-able by design. The terminal block covers can be sealed to the meter to prevent tampering. The meter case comes pre-sealed. To install simply slip the wire end of the tool-less meter seal through the hole in the bolt that holds the cover plate. The insert the wire end into the rotating seal drum and turn the knob. No tools required.



50 feet 4-Twisted Pairs of CAT5e RS-485 Shielded Cable

We now offer high quality CAT5e cable in 50 foot increments. This shielded cable contains four pairs of stranded twisted pair wire which works great for connecting RS-485 enabled meters and communication devices.



3 Ft. Ethernet Cable

We offer these compact Ethernet Cables for meter communications purposes . These can be used to connect the EKM Push or iSerial to an internet router.