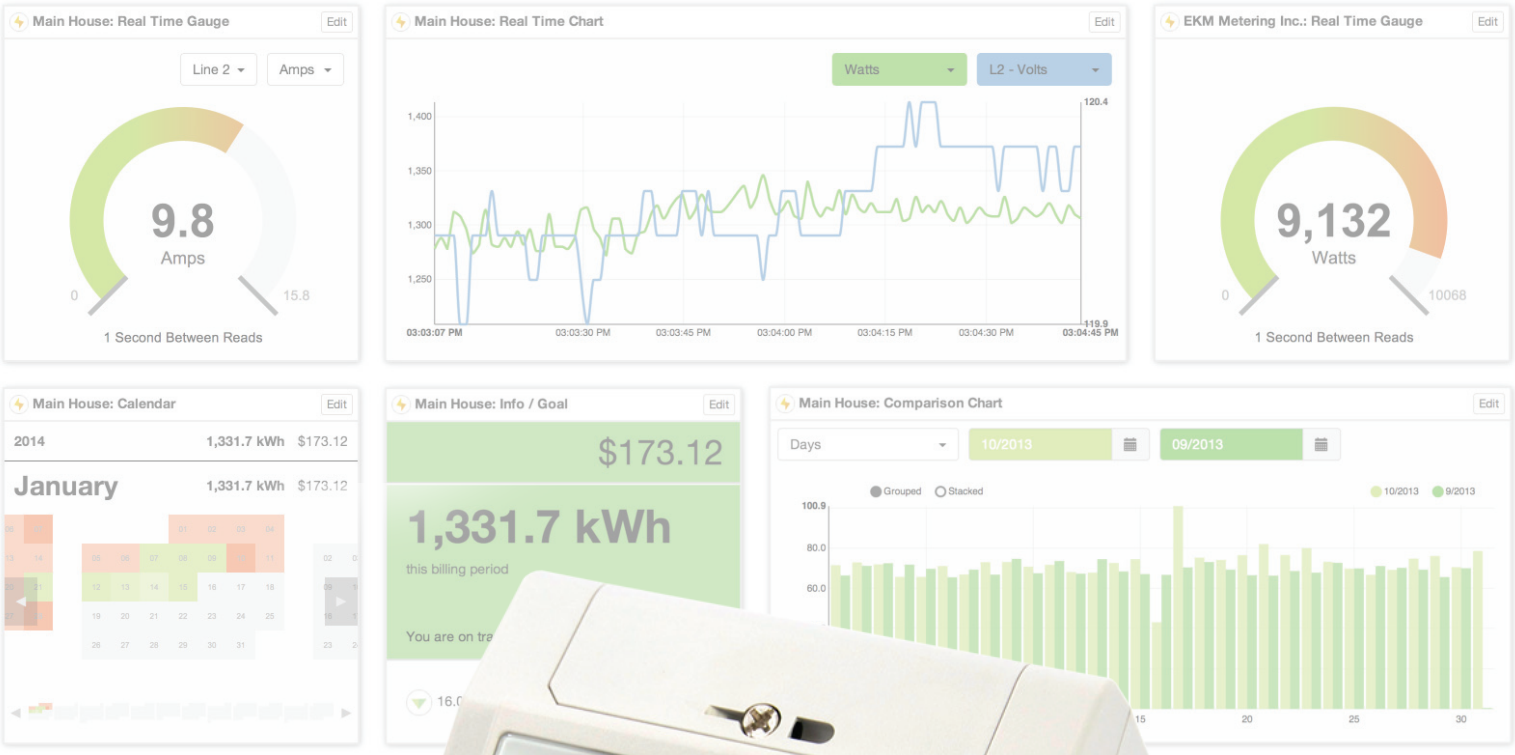
EKM METERING INC.



METERING SOLUTIONS

EKM Metering Inc. – www.ekmmetering.com – info@ekmmetering.com – (831)425-7371

Save Energy, Save Money, Win.

A new standard in Metering Hardware and services. Unrivaled value and quality.

Founded in 2007 in Santa Cruz, CA, EKM Metering (www.ekmmetering.com) designs and manufactures advanced sub meter hardware for electricity, water and gas; plug-and-play cloud communication systems, dashboards and software to manage meter data. EKM's innovative approach includes free cloud data storage, dashboards and software to offer unprecedented value and a complete submeter solution.

v.3 Omnimeters

Omnimeter II UL v.3

Universal revenue-grade kWh meter
0.5% accuracy
UL and cUL Listed
120V single phase
120/240V single phase
120–240V 3-phase 3-wire
120–240V 3-phase 4-wire
50-60Hz
Supports CTs from 100 to 5000A
RS-485 2-wire communcations
Pulse Output

#	LCD Display Data	#	LCD Display Data	#	LCD Display Data
01	Total kWh (forward +	06	Amps L1	11	Watts L3
02	reverse)	07	Amps L2	12	Watts Total
03	Reverse kWh	08	Amps L3	13	CosΘ L1 (Power Factor)
04	Volts L1 (Line 1)	09	Watts L1	14	CosΘ L2
05	Volts L2	10	Watts L2	15	CosΘ L3

v.4 Omnimeters

Omnimeter Pulse UL v.4

Universal revenue-grade kWh meter
0.5% accuracy
UL and cUL Listed
120V single phase
120/240V single phase
120–240V 3-phase 3-wire
120–240V 3-phase 4-wire
50-60Hz
Supports CTs from 100 to 5000A
RS-485 2-wire communcations
Pulse Output
x3 Pulse counting inputs
x2 controllable relay outputs

#	LCD Display Data	#	LCD Display Data	#	LCD Display Data
01	Total kWh	15	CosΘ L3	29	Pulse Count 1
02	Reverse kWh	16	T1 kWh (Time of Use 1)	30	Pulse Count 2
03	Volts L1 (Line 1)	17	T2 kWh	31	Pulse Count 3
04	Volts L2	18	T3 kWh	32	kWh on L1 (Line 1)
05	Volts L3	19	T4 kWh	33	Reverse kWh on L1
06	Amps L1	20	Reverse T1 kWh	34	kWh on L2
07	Amps L2	21	Reverse T2 kWh	35	Reverse kWh on L2
08	Amps L3	22	Reverse T3 kWh	36	kWh on L3
09	Watts L1	23	Reverse T4 kWh	37	Reverse kWh on L3
10	Watts L2	24	VARs L1 (Reactive)	38	Total KVARh (Reactive Total kWh)
11	Watts L3	25	VARs L2	39	Resettable kWh
12	Watts Total	26	VARs L3	40	Resettable Reverse kWh
13	CosΘ L1 (Power Factor)	27	VARs Total	41	3 Inputs High/Low
14	CosΘ L2	28	Frequency (Hz)	42	Maximum Demand

Communications & Data

EKM Push

- Sends Omnimeter data to the cloud
- Cloud database
- Once/minute read rate
- Free data available on the web
- Supported by our Encompass web application
- Supported by our EKM Dash software
- Plug and play installation
- Supports up to 256 meters

Encompass.io (beta)

- Web application for EKM Push data
- Dashboard display
- Customizable Widgets
- CSV and PDF exports
- Free

Current Transformers

Solid Core - 26.6mA output

- BCT-013-200: 13mm, 200A
- BCT-015-200: 15mm, 200A
- BCT-025-200: 25mm, 200A
- BCT-025-400: 25mm, 400A
- BCT-045-600: 45mm, 600A
- BCT-080-800: 80mm, 800A

Split Core - 26.6mA output

- SCT-013-200: 13mm, 200A
- SCT-023-200: 23mm, 400A
- SCT-032-200: 32mm, 400A
- SCT-065-800: 65mm, 800A
- SCT-100-1500: 100mm, 1500A
- SCT-100-3000: 100mm, 3000A
- SCT-180-5000: 180mm, 5000A

UL Approved Current Transformers			
Part Number	Type	Inside Diameter	Max Amperage
EKM BCT-013-200	Solid Core	13mm	200A
EKM BCT-015-200	Solid Core	15mm	200A
EKM BCT-025-200	Solid Core	25mm	200A
EKM BCT-025-400	Solid Core	25mm	400A
EKM SCT-013-200	Split Core	13mm	200A
EKM SCT-023-400	Split Core	23mm	400A
EKM SCT-032-400	Split Core	32mm	400A

Gas Meters

3/4" Gas Meter (PGM-075)

- Diaphram Type
- Steel Body
- 3/4" NPT Brass Fittings
- Pulse Output
- Cubic Feet
- One pulse per cubic foot

Water Meters

3/4” Water Meter (SPWM-075)
Stainless Steel Body (304 grade)
Stainless Steel Fittings (201 grade)
3/4” NPT Fittings
Pulse Output
Cubic Feet
One pulse per 1/10 cubic foot

3/4” Hot Water meter (HOT-SPWM-075)
Stainless Steel Body (304 grade)
Stainless Steel Fittings (201 grade)
3/4” NPT Fittings
Maximum Temperature: 165ºF(74ºC)
Pulse Output
Cubic Feet
One pulse per 1/10 cubic foot

1.0” Water Meter (SPWM-100)
Stainless Steel Body (304 grade)
Stainless Steel Fittings (304 grade)
1.0” NPT Fittings
Pulse Output
Cubic Meters
One pulse for every 0.01m^3

1.5” Hot Water meter (SPWM-150)
Stainless Steel Body (304 grade)
Stainless Steel Fittings (304 grade)
1.5” NPT Fittings
Pulse Output
Cubic Meters
One pulse for every 0.01m^3

2.0” Water Meter (SPWM-200)
Stainless Steel Body (304 grade)
Stainless Steel Fittings (304 grade)
2.0” NPT Fittings
Pulse Output
Cubic Meters
One pulse for every 0.01m^3

Direct Communication

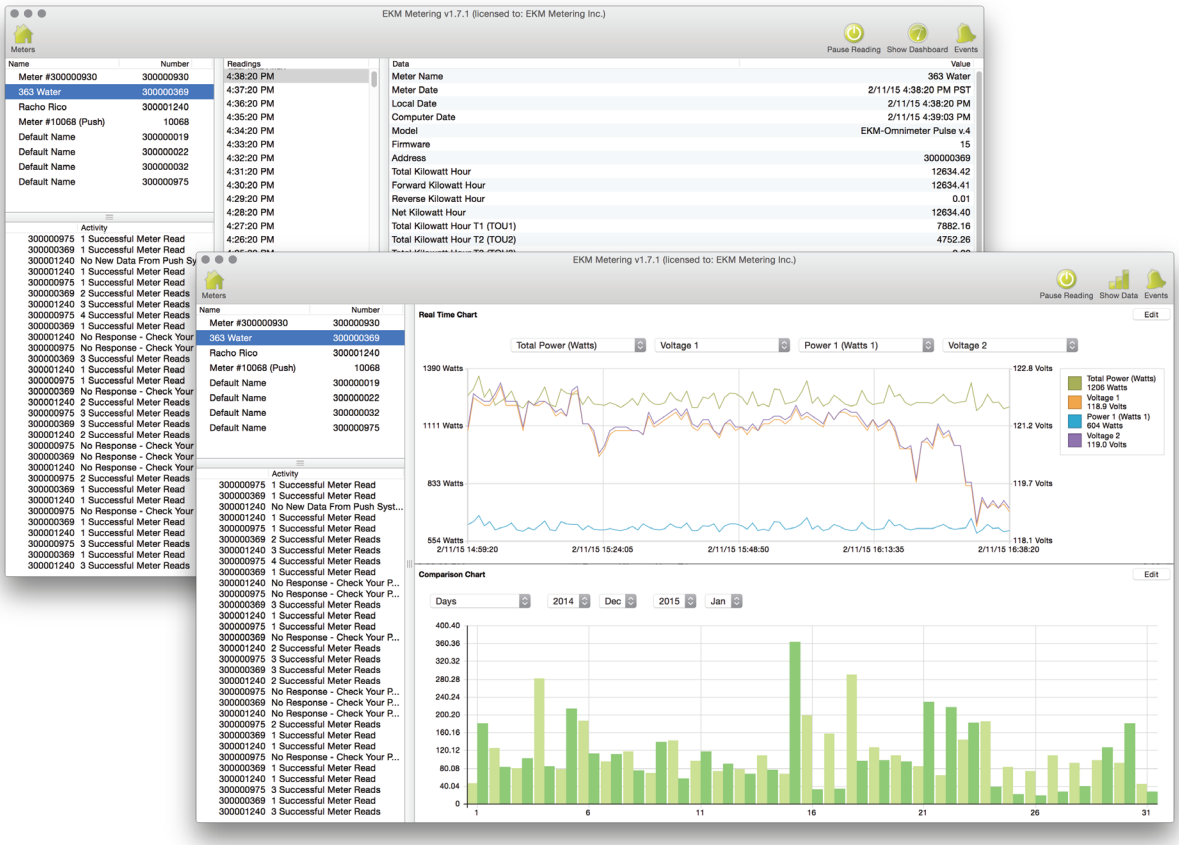
RS-485 to USB Converter

Direct meter-to-computer connection
EKM Dash supported

Software

EKM Dash software

For Windows, Mac OSX, or Linux
Reads and stores meter data
EKM Push supported
CSV and email reporting
Dashboard with graphs
Alerts and triggers
Free trial



Meter Enclosures

Indoor Enclosure (EKM-IENC)

All hardware and DIN rail included
Flush or surface mounting
Fits one meter inside

Watertight Enclosure (EKM-EENC)

See-through gasketed cover
DIN rail included
Fits one meter inside
IP65

EKM METERING INC.

122 Benito Avenue
SANTA CRUZ, CA 96062
USA

www.ekmmetering.com
info@ekmmetering.com
1.831.425.7371

www.encompass.io
info@encompass.io
1.831.435.1566