

Description

The kVe™ is a cost-effective replacement for polyphase electromechanical energy meters. But, It does much more than any electromechanical meter. The kVe is an energy meter with the features and capabilities of a kV™ meter, including:

- 120 – 480 volt operation or optional 57 to 120 Volt operation
- Single piece tamper resistant LEXAN cover without demand reset lever
- Fitzall™ installation flexibility, 2 meters meet all of your transformer rated and self contained needs.
- Functional and communications upgrades with option boards and Softswitches.
- Site Genie™ automatic site monitoring and installation wiring verification.
- Real time local and remote monitoring of voltage, current and energy using MeterMate's "Real Data"
- Power quality measures in every meter
- DC immunity and software selectable 50 or 60 Hz. operation
- Standard reading and programming (ANSI C12.18 & C12.19)



Automatic On-Site Monitoring

GE's Site Genie™ Monitor provides a simple, automatic way to catch errors, tampering and wiring changes *before* billing problems occur. Site Genie also gives you the phasor information and diagnostics you need to fix the problems it finds.

Power Quality Monitoring

Voltage and Distortion alerts are in every kVe Meter. The kVe's tools identify service and load power quality problems before they become complaints

Adding options

The kVe meter can be ordered with any of the kV meter Softswitches or option boards. These options can also be added later when needed.

kVe Options

Option	Description
Telephone modem or interface to cellular phone	T option board - Telephone modem with built in line sharing (up to 5 modems per line)
Event Logging	E soft switch – 200 event security and power quality log
Pulse outputs, Real-Time-Pricing, Alerts, End-of-interval pulse or Load Control	I/O Option board (2 kYZ outputs, 1 controlled switch, and "Real time pricing" input)
RS-232 serial communications, GSM wireless communications or external modem	RSX option board – RS232 or RS485 (no multidrop addressing) serial communications
TOU Metering	T soft switch – 4 TOU rates and 4 seasons (no demands)
kvarh, kVAh, Q-hour and Power factor measurement (no kVA or kvar)	K Softswitch – adds second cumulative measurement and power factor
Load Profile Recording	LP option board – 64k, 2 channel recorder



S-Base Meters

xxx indicated group number is determined at the time the order is processed.

Circuit	Wires	Form	Elements	Class	CatNo	Replaces
<i>Self Contained 120 - 480 V</i>						
Singlephase	2	1S	1	200, 320	744X200xxx	
	3	2S	1	200, 320	744X200xxx	
Singlephase Δ or Network	3	12S	2	200, 320	744X100xxx	
2φ	5					
3φ Y or Δ	4	16 ☒	3	200, 320	744X400xxx	14S, 15S, & 17S
<i>Transformer Rated 120 - 480 V</i>						
Singlephase	2	3S	1	20	744X300xxx	
	3	4S	1	20	744X300xxx	
3φ Y or Δ	4	9S ☒	3	20	744X900xxx	8S
3φ Y	4	36S	2½	20	744X600xxx	6S
3φ Δ	3 or 4	45S	2	20	744X500xxx	5S, 35S
2φ	5					

☒ Fitzall Capable Meter

A-Base Meters

Circuit	Wires	Form	Elements	Class	CatNo	Replaces
<i>Self Contained 120 - 480 V</i>						
Singlephase	3	13A	2	150	745X300xxx	12A but has wider terminal block
3φ Δ	3					
Network	3					
3φ Y or Δ	4	16A ☒	3	150	745X400xxx	14A and 15A
<i>Transformer Rated 120 - 480 V</i>						
3φ Y or Δ	4	10A ☒ ♦	3	20	745X000xxx	8A, 9A & 11A
3φ Y	4	36A	2½	20	745X600xxx	6A, 46A
3φ Δ	3 or 4	45A	2	20	745X500xxx	5A
2 φ	5					
3φ Y or Δ	4	48A ☒ ♦	3	20	745X800xxx	8A, 9A and 11A

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♦ 10A and 48A are the same except KYZ terminal location

Switchboard Meters

Service	Meter Elements	Bar Code	Voltage Range	Basic ④	With Option Boards ⑤
2-Wire, 1Φ	1	3Z	120 - 480	746X300xxx	746X313xxx①
3-Wire, 1, 2, or, 3Φ	2	45Z	120 - 480	746X500xxx	746X517xxx
4-Wire, 3Φ, Y	2-1/2	36Z③	120 - 277②	746X600xxx	746X617xxx
4-Wire, 3Φ, Y	2-1/2	36Z③	57 - 120②	746X600xxx	746X617xxx
4-Wire, Y or Δ	3	9Z	120 - 277②	746X900xxx	746X917xxx
4-Wire, Y or Δ	3	9Z	57 - 120②	746X900xxx	746X917xxx
4-Wire Fitzall™	3	9Z	120 - 277②	746X900xxx	746X917xxx
4-Wire Fitzall™	3	9Z	57 - 120②	746X900xxx	746X917xxx

① No Revenue Guard on 1Φ ② When a 480/277 Volt Y Service is metered with VTs, the usual VT ratio is either 2.4, or 2.5:1 and the meter is rated for 120 Volts. If a 4:1 VT is connected line-to-neutral for this application, a 57 - 120 Volt meter must be specified. ③ 36-Z meters have two voltage sensing circuits connected line-to-neutral and three current sensing circuits. Three CTs are required. ④ kVe Meter with no option boards or soft switches ⑤ kVe Meter with KYZ, Load Profile Recording, Telephone Modem, and Revenue Guard Option boards and E(event log), T(Time-of-Use), and K(kvarh and kVAh measurements) soft switches.