

Reliable & Flexible



The XT family of meters is designed to run the same firmware on all meters. Therefore the functionality among all types is similar. There are differences between PCB hardware which makes each of them unique. All Vision meters meet requirements set forth by UL with regard to design, materials and components.

The **Standard XT** meter platform is typically offered when standard features are required. The XT can be equipped with Vision's Data on Demand, Landis + Gyr Airpoint and Nexgrid's AMI technology. It is offered in all forms and can be equipped with a 200 amp switch in Forms 1S, 2S & 12/25S.

The **XT-L** is the Standard XT with a 4G LTE or Cat M-1 modem designed for multiple networks. Communications with the **XT-L** can be accomplished with Itron's MV-90, Vision's EndSight or 20/20 software and PrimeStone PrimeRead. The **XT-L** can be sold with or without UL approval.

Some customers require their meters to be UL approved especially in non-utility applications. Our **XT-UL** platform has all the same features as the standard XT and some enhancements in the power supply. UL approval is only on 2S, 12S & 16S.

The **XT-E** is an enhanced version of our XT platform designed specifically for Verizon Grid Wide Utility Solutions. It has an enhanced power supply and additional circuitry for power failure. All switching circuits for the disconnect switch(s) are on the main board.

COMMUNICATIONS OPTIONS



LTE Cat M-1



Evolution LTE 4G

NBIIoT LTE

Data on Demand

Landis + Gyr Airpoint



Grid Wide Intelligent Energy



Displayable Values

ENERGY VALUES

KWh Delivered Total
 KVARh Delivered
 KVAh Delivered
 KWh Delivered Phase A
 KWh Delivered Phase B
 KWh Delivered Phase C
 KWh Received Total
 KVARh Received Total
 KVAh Received
 KWh Received Phase A
 KWh Received Phase B
 KWh Received Phase C
 Quadrant 1 KWh
 Quadrant 2 KWh
 Quadrant 3 KWh
 Quadrant 4 KWh
 Quadrant 1 KVARh
 Quadrant 2 KVARh
 Quadrant 3 KVARh
 Quadrant 4 KVARh

DEMAND

Max KW Demand
 Max KVA Demand
 Max KVAr Demand
 Cumulative Demand
 Continuously Cumulative
 Demand Reset Date
 Date, Max KW Demand
 Date, Max KVA Demand
 Date, Max KVAr

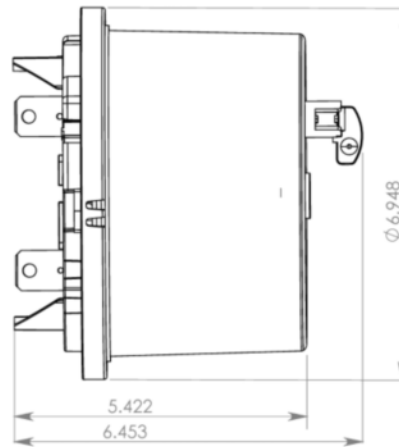
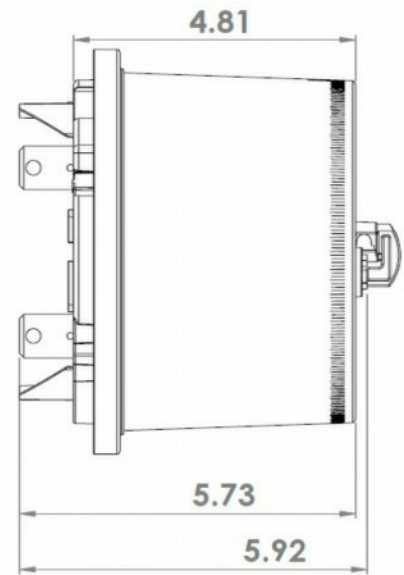
Time of Use

KWh Rate A
 KWh Rate B
 KWh Rate C
 KWh Rate D
 Cumulative Demand
 Continuously Cumulative
 Demand
 Demand KW Rate A
 Demand KW Rate B
 Demand KW Rate C
 Demand KW Rate D

Volts, Amps & PF

Voltage RMS Phase A
 Voltage RMS Phase B
 Voltage RMS Phase C
 Current RMS Phase A
 Current RMS Phase B
 Current RMS Phase C
 Phase Angle Phase A
 Phase Angle Phase B
 Phase Angle Phase C
 Power Factor Phase A
 Power Factor Phase B
 Power Factor Phase C
 Total Power Factor

XT-E
Dimensions



Standard XT, XT-L,
XT-UL



LCD Display Layout

Example 9S with Data on Demand

9	N	9	J	1	P
Meter Form	Volts/Class	Platform	Communications	Options	Cover Type
1 Form 1S	A 120V/100A	1 Vision LT	A None	1 None	D Demand
2 Form 2S	B 120V/200A	2 Vision ST	B HP Airpoint Radio	2 200 A Switch	N None
3 Form 3S	C 120V/320A	3 Vision XT	C Pulsed Output FM C	3 Ext Antenna	P Polycarbonate
4 Form 4S	D 120V/20A	4 Vision XT AMI	D Pulsed Output FM A	4 Switch & Ant	L Lexan SLX
5 Form 5S	E 240V/200A	5 Vision ST AMI	E RS-485	5 Potential Link	
6 Form 6S	F 240V/320A	7 LT Shielded	F RF/Pulse FM C	6 Switch w/link	
9 Form 9S	G 240V/20A	8 ST Shielded	G RF/Pulse FM A	7 Ant w/link	
R Form 10S	H 480V/200A	9 XT Shielded	H RF/RS-485	8 Sw/Ant/link	
P Form 11S	J 480V/320A	S XT-E	I Verizon Gridwide	9 100A Switch	
M Form 12S	K 480V/20A	U XT-UL	J Data on Demand	0 TSTM Xformer	
N Form 25S	L 120-480V/200A		K LTE Modem	C Pulse Form C	
Z Form 16S	M 120-480V/320A	Switch Meters 4,5 or	N Nexgrid	D Dual Pulse	
C Form 2SM	N 120-480V/20A	U only	T 3 Airpoints		
T Form 32S	P 120-480V/100A		W 5 Airpoints		
P Form 36S			U Cat M-1		
F Form 45S					

GENERAL XT SPECIFICATIONS

- ANSI C12.18, C12.19, C12.20, & C37.90.1 Compliant
- Utilizes Magnetically Shielded Current Transformer(s) for Current Measurement
- 120-480 VAC Input Voltage
- LCD Display is soldered to the board
- 12 Channels of Load Profile,
- Time of Use
- Demand, KW & KVAR
- Reactive Metering
- Four Quadrant Metering
- Event Log
- Delivered, Received and Net Metering
- Alternate Mode with programmable display values
- Accuracy Class $\pm 0.2\%$
- Shipped with Accuracy better than $\pm 0.15\%$
- Designed for 20 Year Life
- Battery options for Display, Ram, and Clock
- Continuous Instantaneous KW
- Uses Vision 20/20 Software for Programming (included with the purchase of meters at no charge)
- 50/60 Hz $\pm 5\%$
- Utilizes Maxim Teridian Technology
- 100 & 200 Amp Switch Option
- 30 Digit User Defined Security Key
- 40 to $+85$ Degree C Operation
- 5 to 95% Relative Humidity
- Functions with Itron's MV90 System.
- Code Numbers assignable to Display Values
- All plastic materials meet or exceeds UL Requirements

XT-E ADDITIONAL SPECIFICATIONS

- Power supply capable of 10 watts @ 4 volts
- Switching circuits for high current switches on main PCB
- Zero crossing circuit for power outage detection

EVOLUTION LTE ADDITIONAL SPECS

- AES 256 Security with Certificate Handling
- Meter/Modem Power Consumption 3.6 watts idling, 6 watts at maximum transmitting
- Designed for multiple wireless systems.

All XT Vision Meters Include

Time of Use
KW & KVAR Demand
Continuously Cumulative Demand
12 Channels of Load Profile
Net Metering
Reactive Metering
Four Quadrant Metering
Event Log
Power Quality

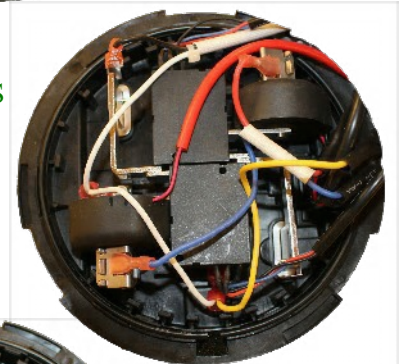
No Extra Charge for Any Features

100 Amp Form
16S Switch



200 Amp Form
2S or 12S Switch

100 Amp Form 2S
or 12S Switch



100 Amp Form
1S Switch

2020 Programming Software

Vision 2020 Software is capable of programming all variables in the meter. Time of Use, Demand, 12 channels of Load Profile, Net Metering, Reactive and Four Quadrant Metering are programmable. Demand can be programmed for block, rolling, cumulative and continuously cumulative. Programs can be developed and stored under a specific Meter Settings #.

2020 is very intuitive and flows easily from screen to screen. All Vision Meters are supplied with everything included. The meter is only sold in one configuration "LOADED". Thus all functions in 2020 are available to be programmed.

2020 will run on Windows XP, 7, 8 & 10. Security is an integral part of 2020 with tasks selectable by the administrator for all users. Security between 2020 and the meter is also programmable by the administrator.

2020 is also used to communicate with Vision's XT-L LTE modem meters via the Internet.

Meter Configuration		Meter Time: 3:38, Meter Date: 2/11/2016			
User	Supervisor	Serial #	10306312	Meter ID	VM-10306312
Firmware Revision	4.060	Form Factor	9S	Service Type	
Transformer Factor		Line Frequency	60.10	Hardware Options	

Measurements (Instant Values)			
Va	239.59	Vb	239.71
Va Angle	0.00	Vb Angle	119.54
Ia	2.501	Ib	2.499
Ia Angle	359.70	Ib Angle	0.30
PF A	1.000	PF B	1.000
kW PhaseA	0.60	kW PhaseB	0.60
kVA PhaseA	0.60	kVA PhaseB	0.60
kVAR PhaseA	0.00	kVAR PhaseB	0.00

Total Values					
kWh	0.00	kVAh	0.00	kVARh	0.00
PF	1.000				

When communicating with any XT meter it is possible to view the Phasor diagram while on site. The Phasor diagram will provide the voltage and current on all phases along with real and reactive power including the phase angle. It will also show the meter's serial number, form and version of firmware.

2020 is an ideal tool to read and store Load Profile Data. Data can be collected via the optical port, LTE modem or via the optional RS-485 port. Load Profile can also be read via Itron's MV-90 System.