

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 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 (Evolution LTE)** is the Standard XT with a 4G LTE modem which can be registered on Verizon's Network. The modem PCB can be equipped with RS 485, Ethernet and Zigbee communications. Communications with the **XT-L** can be accomplished with Itron's MV-90, Vision's EndSight or 20/20 software. 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.

The **XT-E** is an enhanced version of our **XT** platform designed specifically for Silver Spring Networks. 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.



**Standard XT, XT-L & XT-UL**

**Communications Options**



**Data on Demand**



**Evolution LTE**

**Landis + Gyr Airpoint**



**XT-E**



**XT-L**

**LTE Modem PCB**

## 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

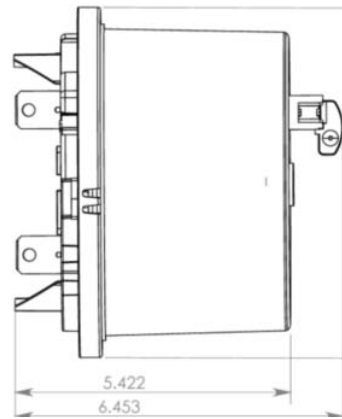
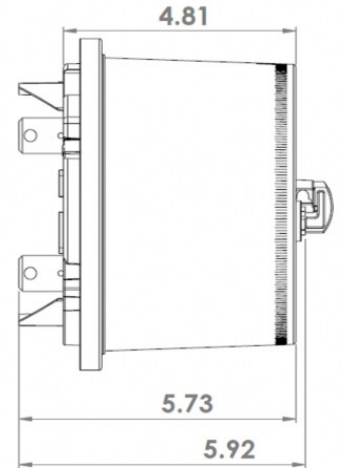
### Time of Use

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

**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	P Polycarbonate
2 Form 2S	B 120V/200A	2 Vision ST	B HP Airpoint Radio	2 200 A Switch	L Lexan SLX
3 Form 3S	C 120V/320A	3 Vision XT	C Pulsed Output FM C	3 Ext Antenna	
4 Form 4S	D 120V/20A	4 Vision XT AMI	D Pulsed Output FM A	4 Switch & Ant	
5 Form 5S	E 240V/200A	5 Vision ST AMI	E RS-485	9 100A Switch	
6 Form 6S	F 240V/320A	7 LT Shielded	F RF/Pulse FM C	0 TSTM Adpt	
9 Form 9S	G 240V/20A	8 ST Shielded	G RF/Pulse FM A	D Dual CT's	
R Form 10S	H 480V/200A	9 XT Shielded	H RF/RS-485		
P Form 11S	J 480V/320A	S XT-E (SSN)	J Data on Demand		
M Form 12S	K 480V/20A	U XT-UL	K LTE Modem		
N Form 25S	L 120-480V/200A		N Nexgrid		
Z Form 16S	M 120-480V/320A		P Silver Spring NIC		
C Form 2SM	N 120-480V/20A		T 3 Airpoints		
	P 120-480V/100A		V 4 Airpoints		
			W 5 Airpoints		

**Catalog  
Numbering  
Guide**

## 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 +/-0.2%
- Shipped with Accuracy better than +/-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 +/-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 MV-90 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
- Approved on Verizon's Wireless System
- Antenna Patent licensed by Trans-Data

## 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

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



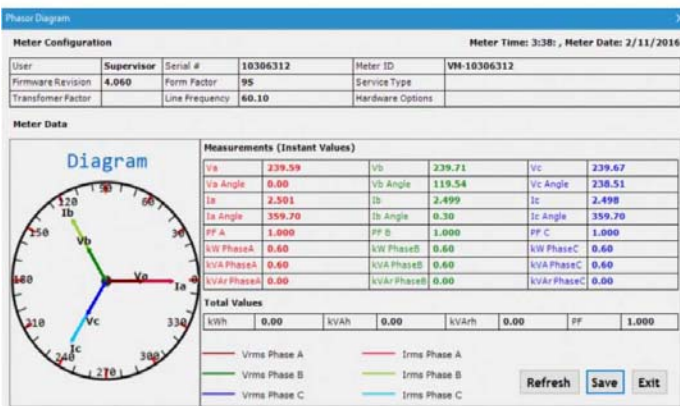
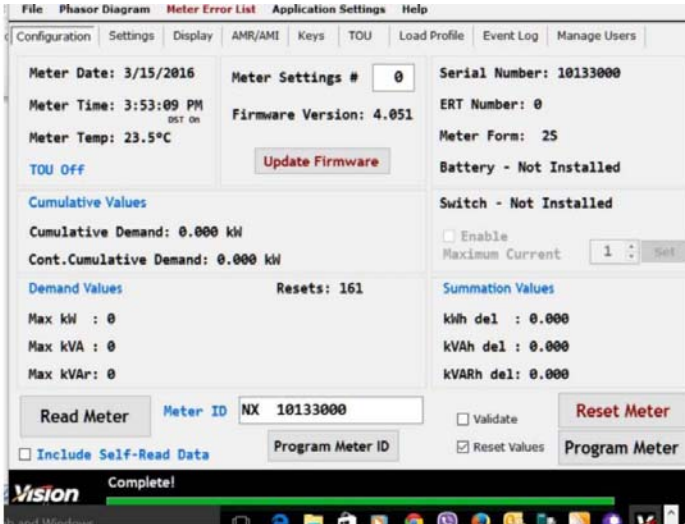
100 Amp Form  
1S Switch

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## 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.

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 Iron's MV-90 System.

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