



Vision™ V9S Polyphase

- **Digital Measurement Technology**
- **Non-volatile memory**
- **Designed for a 20+ year life**
- **Meets or exceeds industry and ANSI standards**
- **Uses ANSI protocols**
- **Six-digit LCD and two Alpha ID**
- **Utilizes Current Transformers for precise measurement**
- **Remote firmware upgradable when meter equipped with 2-way communications**

As the utility industry continues to evolve, the fundamentals of metering remain unchanged. Accuracy, reliability and affordability are still as important in today's metering world as they were 50 years ago. The rapidly changing Smart Grid landscape brings a new fundamental requirement into play as well: flexibility. Today's smart meters must be capable of constantly evolving to meet ever changing requirements. Utilities can no longer afford to be handcuffed by a single source for their metering needs. Vision Metering is committed to offering the utility industry metering products and services that advance open communication and data transfer protocols while offering the flexibility of incorporating a variety of existing technologies.



Vision Metering's VISION family of meters establishes a new benchmark in adaptability. The Vision meter offers a number of AMI platforms to meet any utility's requirements. Existing AMI communication options include 900 MHz fixed network, 2.4 GHz fixed network and cellular under glass capabilities. Home Area Network (HAN) support is provided through an optional onboard Zigbee radio. Vision Metering also continues to support existing AMR drive-by systems with our HP Airpoint modules from Landis+Gyr.

The VISION™ meter family provides utilities with the most accurate, reliable, affordable and flexible metering platform available.

Accuracy

The gold standard of metering accuracy has always been the incorporation of Current Transformers as the primary means of current sensing. Benefits of current transformers include increased accuracy, long term stability, temperature stability and design flexibility. Unlike other current sensing technologies, precise physical placement of the CT is not critical to maintaining accuracy. This allows the VISION meter design to permit a limited amount of flexibility in the meter blades which minimizes any potential problem with heat rise when installing a new meter in an existing socket.

Reliability

Reliability, quality and durability are designed into every aspect of the VISION meter. Design features ensuring reliability include:

- Oversized current coils
- Robust power supply
- Hermetically sealed transformers
- 10 kV surge protection
- Single PCB design

Affordability

The VISION meter family breaks from the industry standard by combining full meter functionality at one low price. The VISION meter offers all metering capabilities in the base configuration so there's no add-on cost for features that are already built into the meter.

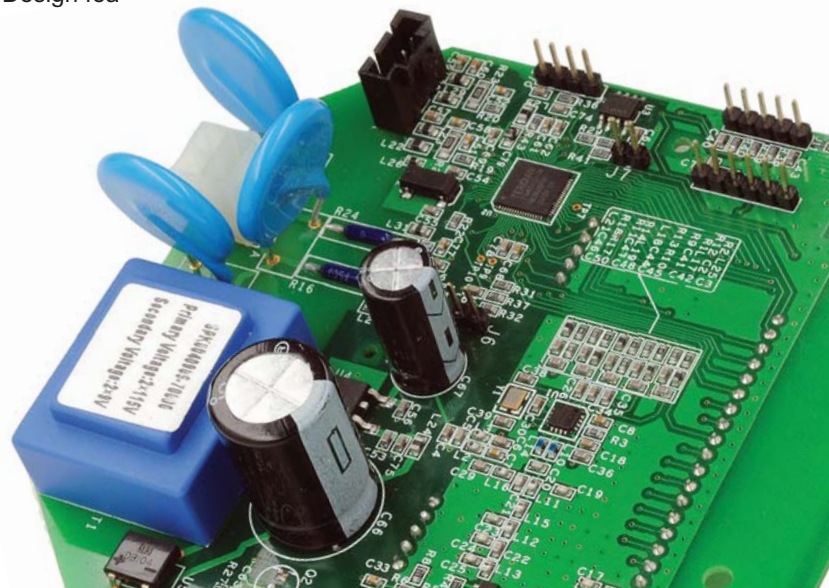
Flexibility

The VISION meter can be easily reconfigured using the optical port on the meter face, or remotely if the meter has two-way communication capabilities. The VISION meter offers the following display configuration options:

- kWh delivered, kWh received, kWh net and high security (always positive direction)
- Instantaneous demand
- Voltage, current, phase angle
- KVA and KVAR
- Segment check

The VISION meter also allows added flexibility when equipped with Landis+Gyr AirPoint communication capability. Radio transmission signal strength and time between transmissions can both be adjusted in order to optimize performance with your drive-by or walk-by systems.

Additionally, the Vision meter is the only meter available that provides a visual indication of data transmission when a SCM message occurs.





Product Specifications

Available Models:

MODEL	WITH RADIO	FORM	VOLTAGE	CLASS
V1S	V1SR	1S	120	100
V2S	V2SR	2S	240 or 480	200 or 320
V3S	V3SR	3S	240	20
V4S	V4SR	4S	240	20
V5S	V5SR	5S	120-480	20
V12S	V12SR	12S	120/208	200
V12S	V12SR	12S	120-480	200
V9S	V9SR	8S/9S	120-480	20
V16S	V16SR	14S/15S/16S	120-480	200 or 320

Communication Protocols

- **DataOnDemand™**
- Landis+Gyr HP AirPoint™ (transmits Itron SCM & IDM)
- OnRamp™ Wireless

Product Specifications

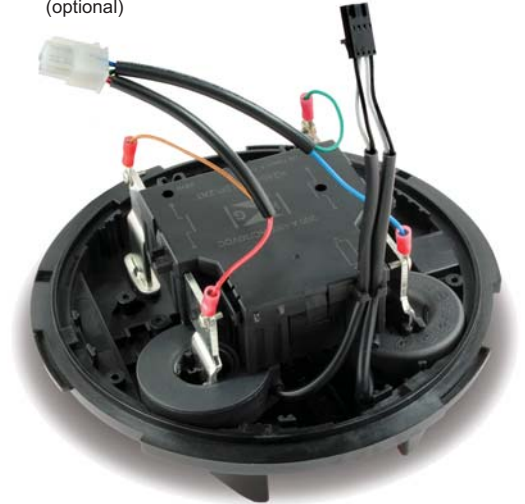
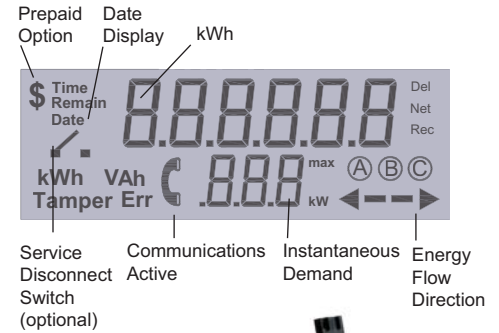
- Operating Temperature:** -40°C to +85°C
- Humidity:** 5% to 95% relative humidity, non-condensing
- Operating voltage:** 120V-480V +/- 20%
- Frequency:** 60Hz +/- 5%
- Load performance accuracy:** +/- 0.2%
- Starting Watts:** ≤5 watts, 0.02A at 240V
- Standard features:** Reactive, bi-directional and net metering
- Standard on Polyphase:** Demand, Load Profile, Time-of-Use
- Optional features:** Remotely-operated Service Disconnect Switch, KYZ Output

Shipping Weights & Dimensions

- **Singlephase with Polycarbonate Cover**
 - Single meter: 1.5 lbs
 - 4 meter box: 7 lbs
 - Pallet of 120: 229 lbs
- **Polyphase with Polycarbonate Cover**
 - Single meter: 2.0 lbs
 - 4 meter box: 9 lbs
 - Pallet of 96: 241 lbs
- **Singlephase with Glass Cover**
 - Single meter: 2.4 lbs
 - 4 meter box: 10.6 lbs
 - Pallet of 120: 337 lbs

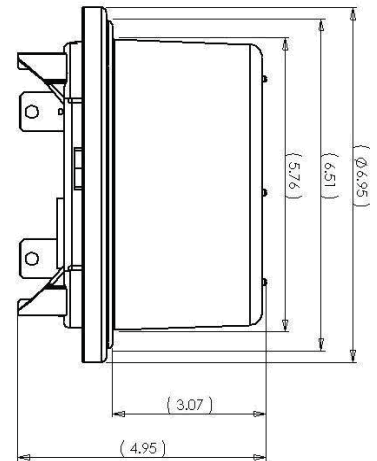
Applicable Standards (meets or exceeds)

- ANSI C12.1
- ANSI C12.10
- ANSI C12.20
- ANSI C37.90.1
- ANSI C12.18
- ANSI C12.19

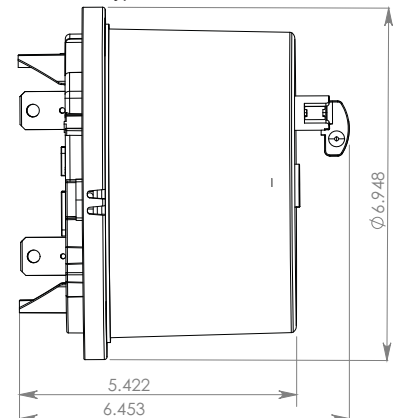


VISION meter base with 200 amp switch

VISION Singlephase Meter



VISION Polyphase Meter





Vision Metering's Most Accurate Family of Meters



- Vision™ Singlephase
- Vision™ Network
- Vision™ Polyphase

