

**Vision**  
Metering  
AN AUSTIN INTERNATIONAL COMPANY



*Vision Metering's Most Accurate Family of Meters*



Vision™ Singlephase

Vision™ Network

Vision™ Polyphase







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.



Through years in development, Vision Meterings's VISION™ family of meters establishes a platform that easily adapts to a wide variety of communication methods. Initially, Vision Meterings's focus was on Broadband over Power Line. Recently, two communication technologies have been adopted, one using a Maxim IC and one using the DS2 technology. Today, Vision Metering works with Hunt Technologies/Landis+Gyr to incorporate the Airpoint™ communication platform into the VISION meter. Vision Metering is working with major communications providers to incorporate the latest technology into the next generation of the VISION meter.

**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**

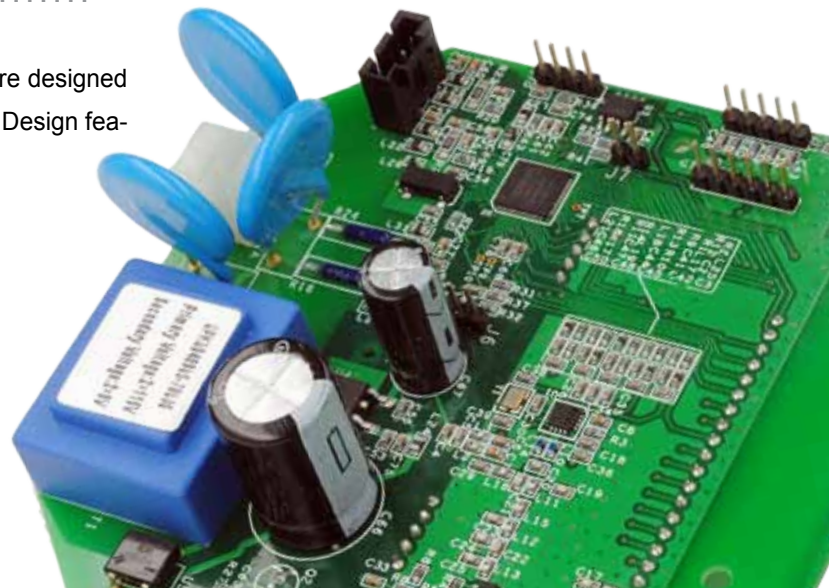
The VISION meter family breaks from the industry standard by combining full meter functionality at one low price. The VISION meter offers all metering capabilities in the base configuration so there's no add-on cost for features that are already built into the meter.

#### **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
- 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.



## Product Specifications

### Available Models:

Forms: **1S**, 120V, Class 100  
**2S**, 240V or 480V, Class 200 or Class 320  
**3S**, 240V, Class 20  
**4S**, 240V, Class 20  
**5S**, 120V/240V, Class 20  
**12S**, 120/208V, Class 200  
**8S/9S**, 120-480V, Class 20  
**14S/15S/16S**, 120-480V, Class 200 or Class 320

### Communication Protocols

- Broadband over power line
- Hunt Technologies HP AirPoint™
- **DataOnDemand™**

### Product Specifications

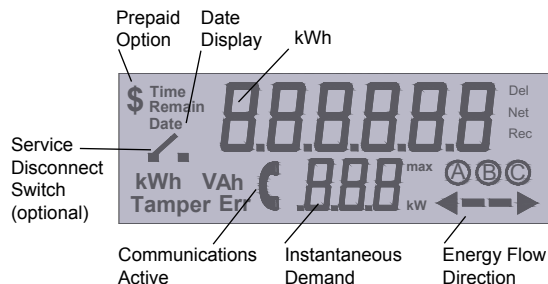
**Operating Temperature:** -40°C to +85°C  
**Humidity:** 5% to 95% relative humidity, non-condensing  
**Operating voltage:** 120V-480V +/- 20%  
**Frequency:** 60Hz +/- 5%  
**Load performance accuracy:** +/- 0.2%  
**Starting Watts:** ≤5 watts, 0.02A at 240V  
**Standard features:** Reactive, bi-directional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

### Shipping Weights & Dimensions

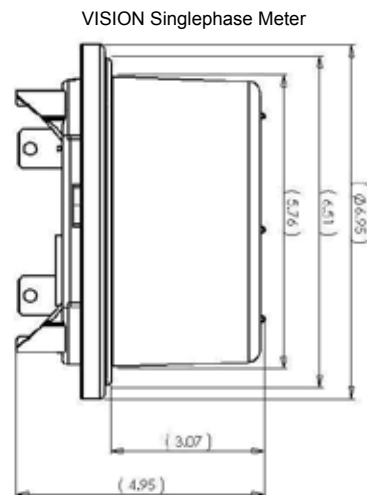
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|---|---|
| <ul style="list-style-type: none"> <li>• <b>Singlephase with Polycarbonate Cover</b><br/> Single meter: 1.5 lbs<br/> 4 meter box: 7 lbs<br/> Pallet of 96: 193 lbs</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Polyphase with Polycarbonate Cover</b><br/> Single meter: 2.0 lbs<br/> 4 meter box: 9 lbs<br/> Pallet of 96: 241 lbs</li> </ul> |
| <ul style="list-style-type: none"> <li>• <b>Singlephase with Glass Cover</b><br/> Single meter: 2.4 lbs<br/> 4 meter box: 10.6 lbs<br/> Pallet of 96: 290 lbs</li> </ul>      |   |

### Applicable Standards (meets or exceeds)

- ANSI C12.1-2001 for electricity metering
- ANSI C12.10-1987 for watthour meters
- ANSI C12.20 1998 for solid state-electricity meters
- ANSI C37.90.1-1989
- ANSI C12.18
- ANSI C12.19



VISION meter base with 200 amp switch



VISION Polyphase Meter

