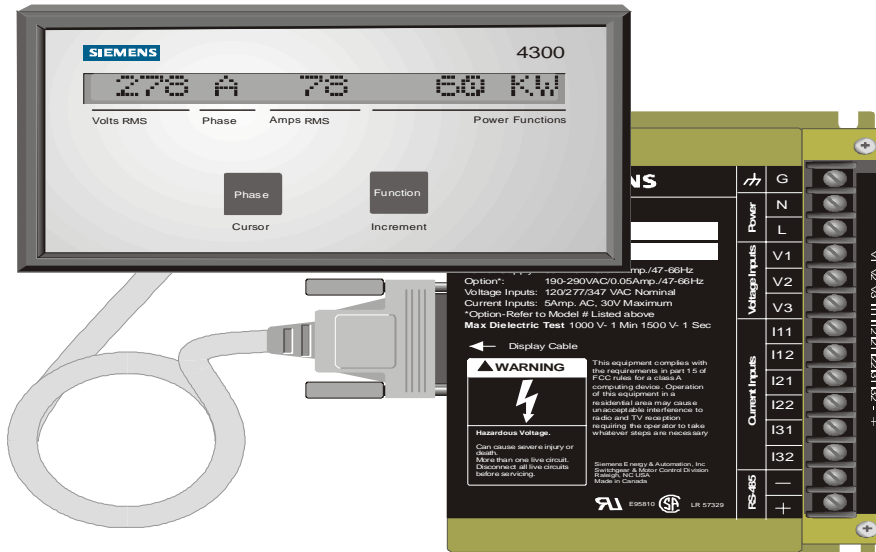


4300 Power Meter



Application

The Siemens 4300 power meter is designed for high-accuracy electrical metering of power distribution equipment in industrial, commercial, institutional and utility applications. It continuously collects, displays and communicates real-time and minimum/maximum data. Data may be viewed at the meter's high visibility display or via communications at a supervisory computer. Operators may select specific data to display or configure the meter by using the sealed membrane keypad.

A communications port allows the 4300 power meter to be used as a stand-alone power monitoring station or as one element in a large energy-management network.

The 4300 power meter replaces multiple analog meters and selector switches, thus making it economical for 3-phase digital power metering.

Construction

The 4300 power meter is built for use in industrial environments. Rugged microprocessor-based technology meets ANSI/IEEE C37.90 requirements for radio frequency interference (RFI), surge withstand and fast transient tests. Complies with FCC/DOC emissions standard. Recognized under UL 1244. Programmed settings, energy counters, minimum/maximum values and other important data is saved on-board in non-volatile memory when power is turned off.

4300 Power Meter Features

The 4300 Power Meter provides the following features:

- Metering includes phase currents and average phase current, phase to phase voltages and average phase to phase voltage, line voltages and average line voltage, peak kW demand, 3-phase kW total, 3-phase kVAR total, 3-phase kVA total, kW demand, kW hours, power factor and frequency
- Large, easy to read, 20 character LCD display
- Convenient installation in new or retrofit applications. Display unit fits standard U.S. analog meter drilling pattern and is connected to the instrument compartment module via cable. This dual module system eliminates the need for voltage transformers on most low voltage applications
- Communications module connects to the Siemens ACCESS™ electrical distribution communications system
- Configuration is password protected and may be done at the meter or remotely through communications
- Easy upgrades using RS-485 communications port

4300 Power Meter

Technical Specifications

4300 Power Meter

Metered Values

The following table provides a listing of metered values.

| Parameter | Accuracy | Resolution | Range |
|----------------------|----------|------------|------------------------|
| Volts & Volts Demand | 0.5% | 0.1% | 0-999,999 ¹ |
| Amps & Amps Demand | 0.5% | 0.1% | 0-9,999 |
| kW & kW Demand | 1.0% | 0.1% | 0-999,999 |
| Power Factor | 2.0% | 1.0% | 0.6 lag to 0.6 lead |
| kVAH ² | 1.0% | 1kVAH | 0-999,999 ² |
| kVA & kVA Demand | 1.0% | 0.1% | 0-999,999 ² |
| kVAR | 1.0% | 0.1% | 0-999,999 ² |
| Frequency | 0.2 Hz | 0.1 Hz | 45-70 Hz |

1. Reads in kV (x1000) for readings over 9,999
2. Reads in M (x1,000,000) for readings over 9,999

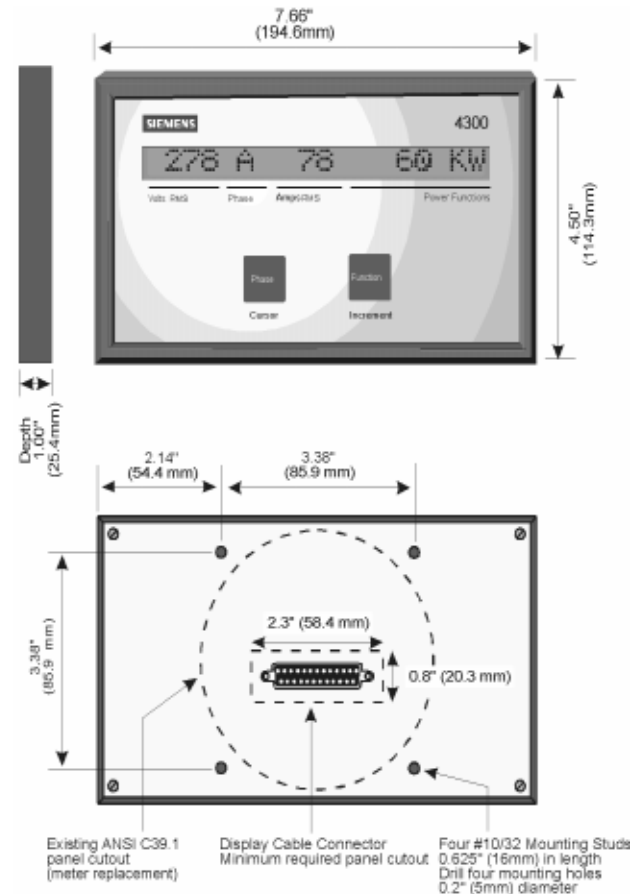
Input Ratings

The following table provides input and power supply information for the 4300 Power Meter.

| Voltage Inputs | |
|-----------------------|---|
| Standard | 120 to 347VAC nominal full-scale input (programmable) |
| Overload withstand | 600VAC continuous, 1500VAC for 1 second |
| Input impedance | 1MΩ |
| Current Inputs | |
| Standard | 5.000A AC nominal full-scale input |
| Overload withstand | 15A continuous, 300A for 1 second |
| Input impedance | 0.002Ω |
| Burden | 0.05VA |
| 1 Amp Option | 1.0 A AC nominal full scale |
| Power Supply | |
| Standard | 108-132VAC / 0.05A / 47 to 66 Hz |
| Optional | 216-264VAC / 0.125A / 47 to 66 Hz |
| Operating temperature | 0°C to +50°C (-32°F to +122°F) ambient air |
| Storage temperature | -30°C to +70°C (-22°F to +158°F) |
| Humidity | 5% to 95%, non-condensing |

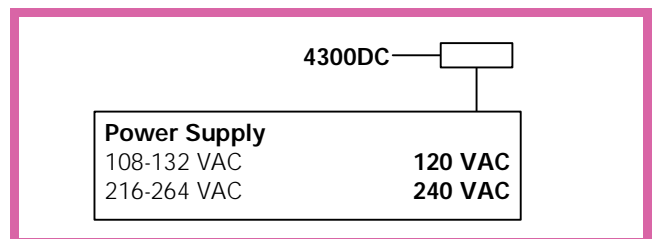
Mounting Dimensions

Below is a diagram displaying the dimensions of the 4300 Power Meter.



Ordering Information

The order number is generated by inserting the selection code into the appropriate box. For additional information on ordering SIEMENS ACCESS products, please call 1-800-427-2256 or your SIEMENS representative.



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