Overview

The NSA-PS3037 series power meter has been designed to be one of the most flexible power meters on the market today and is compact enough to facilitate mounting directly in your electrical panel. The NSA-PS3037 can be used on any Single or Three Phase service panel or piece of equipment that meets the power supply range of 80 to 600 VAC. Unlike many of the power meters on the market today, the NSA-PS3037 meters can be easily paired with any number of Standard and Revenue Grade mV output current transformers in the field to monitor the operating current ranges from 0.25 to 4000 Amps. The CT's must be purchased separately as shown on the Standard and Revenue Grade CT's product data sheets. Each meter also includes additional features such as the Patented PhaseChek™ LED's (US Patent # 7612552), Viewpoint Programming Software, Revenue Grade 0.2% Accuracy, NIST Calibration Certificate, Din Rail Mounting, Pulse Output and is Internally Fused. The Viewpoint Programming Software will allow you to easily setup and configure your meters while sitting at your desk through the use of a single USB Port and standard USB A-B cable. Save all of your setup table information for easy programming of multiple meters using similar setup tables. Once the meter is installed, real time data streaming using the ViewPoint™ Software is available for non-display units along with the PhaseChek™ LED's to ensure that all CT's orientations are correct once installed. An optional display is available to provide local streaming of data once installed and can be locked onto a specific data screen through the use of an integral push button on the side of the meter. An optional Gray, powder coated, UL rated metal electrical enclosure is available for mounting up to two NSA-PS3037 power meters in a single enclosure with and without a clear viewing window for use with display models. An optional fuse kit assembly is available which includes a 35mm Din rail and four din rail mounted fuse blocks with 14 AWG, 600 VAC wires for easy attachment to the meter. For more information regarding the NSA-PS3037 Power Meter and any of its accessories or to discuss your application in further detail, please contact your Carrier Sales representative.

Applications: Energy and Demand Metering, Data Centers, Bi-Directional Metering, Load Surveys, LEED/Green Projects, Process Improvements, Real Time Power Monitoring in Commercial, Retail and Industrial Environments
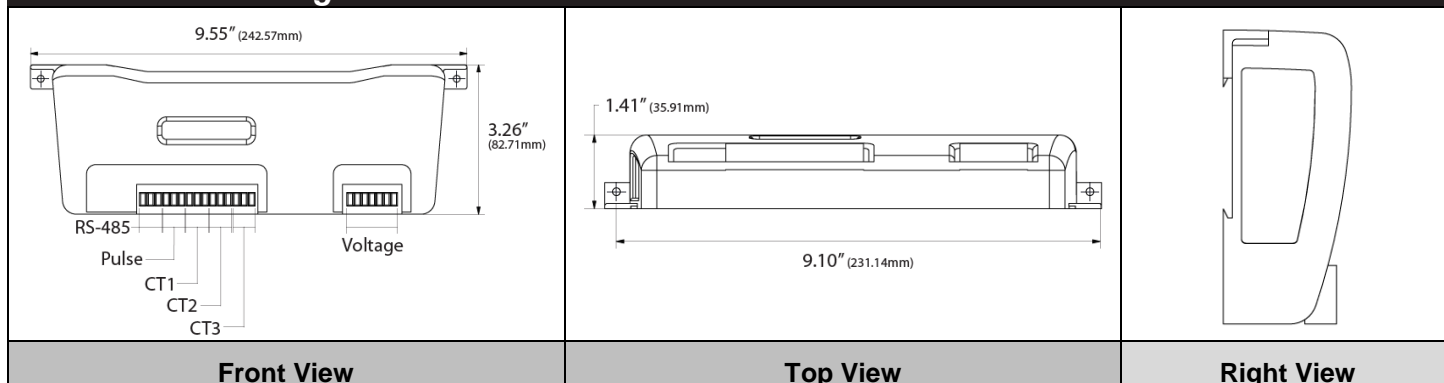
Part Numbers

NSA-PS3037-E-D   **NSA-PS3037-S-D**   **NSA-PS3037-S-N**

Dimensional Drawing

Front View	Top View	Right View

Specifications

Service Type:	Single Phase, Split Phase, Three Phase - 4 Wire (Wye) | Three Phase - 3 Wire (Delta)
Power:	From L1 Phase to L2 Phase | 80 to 600 VAC RMS CAT III 50/60 Hz, 90 mA AC maximum
AC Protection:	0.5A Internal Fuse Protection
Power Output:	Unregulated 5 VDC Output, 140 mA maximum supply current
Voltage Channels:	80 to 346 Volts AC Line to Neutral, 600 VAC Line to Line, Cat. III
Current Channels:	3 Channels, 0.525 VAC max, 333 mV CT's, 0 to 4000 Amps with Rocoil™ CT's
Maximum Current Input:	158% of Current transducer rating (mV CT's) to maintain accuracy | Measure up to 4000 Amps (Rocoil™ CT's)
Measurement Type:	True RMS with High Speed Digital Signal Processing (DSP)
Line Frequency:	50/60 Hz
Waveform Sampling:	12 kHz
Parameter Update Rate:	0.5 seconds
Measurements:	Volts, Amps, kW, kVAR, kVARh, kVA, kVAh, aPF, dPF, All Parameters for each Phase and System Total
Accuracy:	0.2% ANSI C12.20-2010 Class 0.2
Resolution:	0.01 Amp, 0.1 Volt, 0.01 Watt, 0.01 VAR, 0.01 VA, 0.01 Power Factor depending on Scalar Setting
Display:	Optional 2 x 16 character display which auto cycles between screens; Real time values updated every second
Pulse Output:	Open Collector, Optically Isolated, 5mA maximum current, 30V maximum open voltage
Communications:	User Selectable Modbus or BACnet MS/TP (RS485 or Ethernet)
Maximum Distance:	1200 meters (3,937 Feet) with data range of 100K bits/second or less
Supported Baud Rates:	9600 (Modbus Default), 19200, 38400, 57600, 76800 (BACnet Default), 115200 Baud
Data Bits | Parity | Stop Bit	8 | None, Even, One | 2, 1
Data Formats:	Modbus RTU, BACnet MS/TP, Modbus TCP/IP or BACnet IP
Operating Temperature Range:	-4 to 140ºF (-20 to 60ºC)
Operating | Storage Humidity Range:	5 to 95%, non-condensing
Case Material | Flammability Rating:	ABS Plastic | UL 94V-0
Wiring Connections:	Depluggable, Screw Terminal Blocks (Polarity Sensitive - PhaseChek™ LED Indication)
Mounting:	Screw Mounting Tabs or TS35/7 Din Rail (35 mm)
Viewpoint™ Software Operating System:	Windows® 10, Windows® 8, Windows®7 (Included with Purchase of Meter)
Communications:	Ethernet or USB, One Free USB Port required on PC
Agency Approvals:	• CE (EN 61000-6-4: Class A), RoHS2, WEEE, ISO 9001:2008: BTL (BACnet) Certified • **UL Listed**: Conforms to UL Std. 61010-1, 3rd Edition & IEC 61010-2-030 1st Edition (UL File# E186827) • **ANSI C12.20 Class 0.2**: NIST Traceable Calibration Certificate Included • CAN/CSA-C22.2 No. 61010-1
Product Weight:	0.750 lbs. (0.340 kg), *CT's not Included*
Product Dimensions (L x W x H):	9.53" (24.2 cm) x 3.35" (8.5 cm) x 1.58" (4.0 cm)

		Modbus		BACnet	
Model #	**Description**	**RTU**	**TCP/IP**	**MS/TP**	**IP**
NSA-PS3037-E-D	Ethernet + Serial w\ display	•	•	•	•
NSA-PS3037-S-D	Serial only w\ display	•		•	
NSA-PS3037-S-N	Serial only, no display	•		•	