GIMA® Three Phase Digital Panel Meter





- Four model types designed to fit a wide range of applications
- One meter to measure all your values
- Easy installation software detection/ correction of wiring errors
- Wide backlit LCD display for easy viewing
- Easy to use four keys select all parameters
- Use for single or three-phase applications



Specifications

INPUT System Voltages Measurement range Current Measurement range **Operating Frequency** Harmonics Input Loading Voltage Current Overload Voltage Current **Auxiliary Supply** Standard Optional **General Display**

ENVIRONMENTAL

Temperature Humidity Programming CT Primary VT Primary Pulse Outputs Function Output No. 1 Output No. 2 Pulse Length Isolation Scaling 3-phase, 3 or 4 wire unbalanced load 120/208, 120/240, 277/480, 63/110 0.5% to 120% 5 amp from external CTs Fully Isolated 0.5% to 120% 45 to 65 Hz Up to the 20th harmonic

Less than 0.1VA per phase Less than 0.1VA per phase

x2 for 2 seconds max. x40 for 1 second max.

115V±15% 45-65Hz 230V±15% 45-65Hz Custom backlit supertwist LCD 3 lines of .47" (12mm) digits plus .15" (3.8mm) legends

14°F to 149°F (-10°C to 65°C) operating <75% RH non-condensing

5amp to 6500 amp 60v to 50,000v 2

Wh (G200, G300 & G400 only) Total varh (G300 & G400 only) 100ms 2500V (50 Output No. 1 to Output No. 2) Settable 1, 10 or 100 pulse output rate

ACCURACY

Current	Per Phase	3 Phase	
5% to 120%FS	±0.2%FS	N/A	
Voltage LN	±1% Rdg*		
20% to 120%FS	±0.2%FS	N/A	
Voltage LL	±1% Rdg*		
20% to 120%FS	±0.3%FS	N/A	
Watts	±1% Rdg*		
5% to 120%FS	±0.4%FS	±0.6%FS	
VA	±1% Rdg*	±1% Rdg*	
5% to 120%FS	±0.6%FS	±1%FS	
var	±1.5% Rdg*	±1.5% Rdg*	
5 % to 120%FS	±0.8%FS	±1.5% FS	
PF	±2% Rdg*	±2% Rdg	
Frequency	±0.2°	±0.2°FS	
Neutral Current			
5% to 120%FS		±0.05 Hz	
Wh Register	N/A	±0.6% FS	
		±2% Rdg	
VAh Register	N/A	Class 1	
Varh Register	N/A	EN 61036	
	N/A	Class 2	
	N/A	Class 2	
		IEC 1268	

Note:

Weight

Height

MECHANICAL Bezel Depth Panel Cutout All accuracies specified are ±1 digit *Rdg = Reading

2.77" x 3.79" (w/ .28" lip) 2.83" 3.62" x 3.62" 14 oz. 3.79"

more >>



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Models & Parameters

	G100	G200	G300	G400
Phase Amps	Х	Х	Х	Х
Phase Volts	Х	Х	Х	Х
Line Volts	Х	Х	Х	Х
Per Phase PK	Х	Х	Х	Х
Per Phase kW	Х	Х	Х	Х
Per Phase kvar			Х	Х
Per Phase kVA				Х
3 Phase PF	Х	Х	Х	Х
3 Phase kW	Х	Х	Х	Х
3 Phase kvar			Х	Х
3 Phase kVA				Х
Frequency	Х	Х	Х	Х
KWh		Х	Х	Х
Capacitive kvarh			Х	Х
Inductive kvarh			Х	Х
Total kvarh			Х	Х
Import kvarh				Х
Current Demand	Х	Х	Х	Х
Voltage Demand	Х	Х	Х	Х
kW Demand			Х	Х
Peak Amps				Х
Peak Phase Volts				Х
Peak Current Demand	Х	Х	Х	Х
Peak Voltage Demand	Х	Х	Х	Х
Neutral Current				Х

Accessories - Three-Phase Current Transformer A three-phase terminal style current transformer must be used with GIMA® three phase meters.

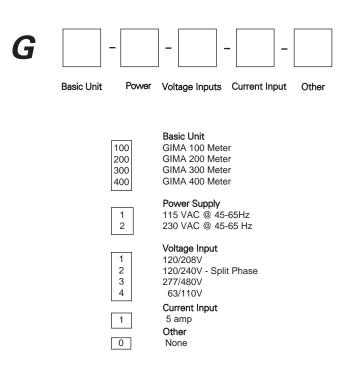
The current transformer is equipped with terminals to permit easy connection to the GIMA units. These terminals are #8-32 brass studs and come with a flatwasher, lockwasher and a regular nut (leads are not provided).



Ordering Information

Catalog Number	Current Ratio	Accuracy @ 60Hz	Burden VA@60 Hz
37026	50:5	± 3%	2.0
37027	100:5	± 1%	2.0
37028	150:5	± 1%	4.0
37029	200:5	± 1%	5.0
37030	300:5	± 1%	10.0

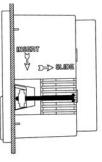
Ordering Information



For other Voltage and Current Inputs, contact Simpson Electric Company

Mounting Requirements

Panels should be .04 to .16 inches (1mm to 4mm) thick with a square cut-out of 3.62" x 3.62" (92mm x 92mm.) A minimum depth of 2.83" (72mm) should be allowed behind the panel for the meter. Remove the panel mounting clips and insert the meter into the cut-out from the front of the panel. Push the meter home. Ensure the screws in each panel mount clip are fully retracted and insert the clips as shown in the diagram below. Tighten the screws to secure the meter firmly in the panel. **Do not overtighten.**



GIMA® Three Phase Digital Panel Meter



GIMA Options Quad Analog Output

The Quad Analog Output Options Module adds four analog 4-20 DCmA outputs to any standard GIMA Series Power Meter. All outputs are isolated from the metering elements to provide safe connection to external systems. The device uses a high-speed microprocessor to extract information from the meter and a precision digital to analog converter to produce the output signals.

The Options Module provides four DC current sinks with a common signal return which allows connection to PLCs and other equipment fitted with a suitable interface. 4-20mA systems are commonly used where signals require transmission over long distances.

Ordering Information

Cat. Number 47130

Specifications

Auxiliary Supply 230V AC or 115V AC 50/60Hz±15% Option Module Automatic voltage selection when inserted into GIMA® Power Meter MUST be rated to match Option Module rating Load 4 VA Maximum Isolation 2.5 kV continuous (supply internally wired to GIMA® main inputs) **Mechanical** (Options Module) Custom Options Enclosure Enclosure Material Mablex, UL94-V-0 Dimensions **Options Unit Unfitted** 3.43" x 2.32" x 2.95" W=87mm x H=59mm x L=75mm GIMA® Meter + Options 3.78" x 3.78" x 5.43" W=96mm x H=96mm x L=138mm Weight Approx. 200g Terminals Modular screwdown contacts, .2" centers 4-20mA Output Quad 4-20 DCmA Current Sink with common Output Nominal 24 DCV Loop Supply Max 28 DCV (at options module) Min 5 DCV (at options module) Unregulated 18 DCV Internal Supply Max 30 DCV Min 10 DCV Load Impedance/Ext. 600V per channel (maximum 950V) 24V supply Supply 250Ω per channel (maximum 500Ω) at nominal Internal (Unreg) Supply Vaux Max output 21mA **Over Range** 10 Bit (830 levels from 4mA to 21mA) Resolution Outputs updated every second (as GIMA® meter) Update Speed Test range 4mA to 20mA, load impedance = 250Ω **Output Accuracy** lout <5.6mA ±0.5% reading + GIMA® meter errors <0.02% (0Ω to 250Ω) Effect of Loop Impedance <0.05% for Vaux ±15% (internal supply, 250V load) Effect of Supply Voltage

Accessories - Modbus Communications

The Modbus Communications Option Module for the GIMA Series adds multi-drop serial communications to any standard GIMA meter. The device uses a high speed microprocessor to extract information from the meter and interface to an industry standard Modbus system.

Use of a dedicated communications processor ensures optimum efficiency, allowing fast access to data on systems with multiple meters. At 19200 baud, it is possible to access and download the main instantaneous data tables (24 values) from 10 GIMA meters in one second.

The use of Modbus protocol ensures compatibility with existing systems and/or many readily available software packages. This Options Module may be configured as RS485 or RS422 providing 2 or 4-wire communications over distances up to 3,960 feet (3/4 mile). Data rates of 4800, 9600 or 19200 baud may be selected to suit system requirements.

The Communications Option Module is available in two formats:

- Standard: Only parameters displayed on the GIMA meter can be accessed via Modbus (Cat. Number 46240)
- All Value: The full set of GIMA G400 parameters can be accessed via Modbus from any GIMA (Cat. Number 46241)



