# GIMA400 Installation Guide Revision 1



## Safety

This instruction sheet gives details of safe installation and operation of the GIMA400 electricity meter. Labels on each meter give details of equipment ratings for safe operation. Take time to examine all labels before commencing installation. Safety symbols on the meter have specific meanings as:



Caution Risk of Danger Refer to Instructions



**Danger** Risk of Electric Shock



Safety may be impaired if the instructions are not followed or the meter is used in a manner not specified by the manufacturer.



Contains no user serviceable parts. Field wiring and commissioning should only be carried out by qualified personnel, in compliance with applicable national regulations.

e.g. National Electrical Code (NEC) for US; Canadian Electrical Code for Canada

#### For further Information contact the supplier:

Address: Simpson Electric Company 520 Simpson Avenue Lac Du Flambeau, WI. (USA) Web:

www.simpsonelectric.com

Email: SimpsonSupport@simpsonelectric.com

## **Maintenance**

The equipment should be maintained in good working order. Damaged equipment must be sent to the manufacturer (or his authorised agent) for repair. The meter may be cleaned by wiping lightly with a soft cloth. No solvents or cleaning agents should be used. All inputs and supplies must be isolated before cleaning any part of the equipment.

## Intended Use

The GIMA400 is a precision multi function electricity monitor which measures system power parameters, including kW, Volts and Amps and displays them on an LCD. Measured parameters may be sent to remote systems for storage or display using an optional communications interface (e.g. Modbus RTU RS485 or Ethernet).

The GIMA400 is intended for mounting in the faceplate (panel) of an electrical enclosure with only the front keypad/display panel remaining accessible to an operator after installation. Panels should be 1mm to 4mm (0.04" to 0.16") thick with a square cut-out of 92mm (+0.8/-0.0mm) (3.62" +0.03" -0"). Insert the meter from the front of the panel, slide the panel clips from the rear of the case and push firmly against the panel ensuring even pressure on each clip.



The safety of any system containing the meter as a component remains the responsibility of the system manufacturer. After installation in a system, the ratings of the overall system, which reflect the ratings of the meter, must be visible to the user.



A suitably located and easily reached switch or circuit breaker must be included as part of the installation. This could, for example, be a safety-interlocking device on the door/front panel of the electrical enclosure. This switch/circuit breaker must be marked as the disconnecting device for the equipment and must comply with the relevant requirements of IEC 60947-1 and IEC 60947-3.



Disconnect / Isolate all supplies before commencing installation.

### 4 Standard Connections

#### 4.1 Current Connections

#### 4.1.1 Current Cables



Current cables must be rated for safe use in the electrical enclosure which houses the meter (e.g. UL1015) and must meet the following minimum specification: Temperature: 105°C (221°F); Insulation 600Vac.

#### 4.1.2 Current Terminals

Voltage: 30Vac maximum

Cable: 22-14 AWG, Stripped 5.5 to 6.5mm (0.2" to 0.25")

Torque: 0.5Nm (4.4in lb)

## 4.2 Voltage Connections



To maintain proper insulation from the mains supply, the neutral wire should only be used in power networks where the system neutral is protectively earthed

#### 4.2.1 Voltage Cables



Voltage cables must be rated for safe use in the electrical enclosure which houses the meter (e.g. UL1015) and must meet the following minimum specification: Temperature: 105°C (221°F); Insulation 600Vac.

#### 4.2.2 Auxiliary Mains Supply

The meter is powered from an auxiliary mains supply which is required to energise the metering circuit and display. This can be connected in parallel with one of the measurement phase voltages if it is rated correctly.



Ensure the auxiliary mains supply L-N is powered from a correctly rated and fused AC source as specified on the meter label.

#### 4.2.3 Voltage Terminals

Voltage: 277Vac (3-4)

480Vac (4-5, 5-6)

Cable: 30-14 AWG, Stripped 5.5 to 6.5mm (0.2" to 0.25")

Torque: 0.5Nm (4.4in lb)

#### 4.2.4 Voltage Fuses

#### Fuses (US/Canada)

Rated Voltage	Туре	Rupture In (A)	Standards
≥ 500Vac	Fast	1.0A	UL248 (US)
			C22.2 No. 248 (CAN)

#### Fuses (Other Countries)

Rated Voltage	Туре	Rupture In (A)	Standards
≥ 500Vac	Fast	1.0A	IEC 60269 - 2

#### 4.2.5 Auxiliary Mains Fuses

#### Fuses (US/Canada)

Rated Voltage	Туре	Rupture In (A)	Standards
≥ 250Vac	Fast	0.1A	UL248 (US)
			C22.2 No. 248 (CAN)

#### Fuses (Other Countries)

1 deed (ether ceditines)			
Rated Voltage	Туре	Rupture In (A)	Standards
≥ 250Vac	Fast	0.1A	IEC 60269 - 2

## 4.3 Communications Options

Communications outputs are safety isolated from the measurement voltages at a minimum of 3.5kV.



Communications cables running within an electrical enclosure may come close to high voltages and therefore must be insulated to the following minimum specification:

Safety Compliant: e.g UL1015; Operating Temperature: 105°C (221°F); Insulation 600Vac

#### 4.3.1 RS485 Output Terminals (Optional)

Voltage: 30Vdc (13-14, 13a-14a)

Cable: 30-14 AWG, Stripped 5.5 to 6.5mm (0.2" to 0.25")

Torque: 0.5Nm (4.4in lb)

#### 4.3.2 Ethernet Output (Optional)

Connection: RJ45

Cable: Cat5e FTP (Foil screened)

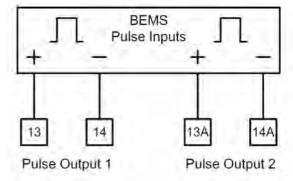
## 4.4 Pulse Output Connections

The pulse outputs take the form of isolated volt free normally open contact pairs. Pulse 1 is associated with active energy (kWh) and Pulse 2 with reactive energy (kvarh).

The contacts are isolated from all other circuits (3.5kV) and at 50V from pulse 1 to pulse 2.

Pulses can be used as input to remote counters, pulse loggers, building energy management system etc.

Light emitting diodes an during each associated output pulse.





Pulse output cables running within an electrical enclosure may come close to high voltages and therefore must be insulated to the following minimum specification:

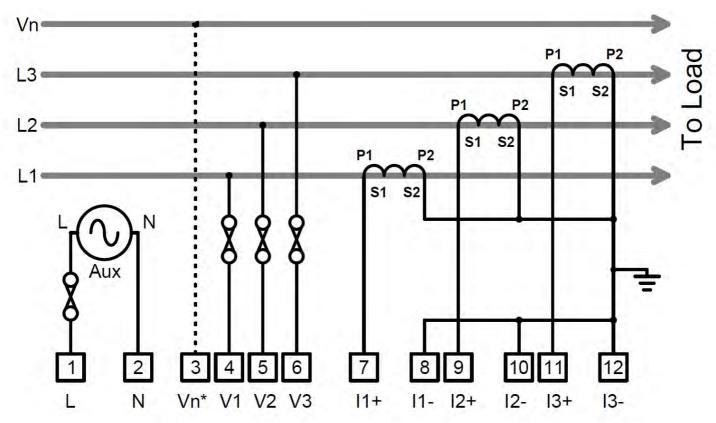
Safety Compliant: e.g UL1015; Operating Temperature: 105°C (221°F); Insulation 600Vac

#### 4.4.1 Pulse Output Terminals

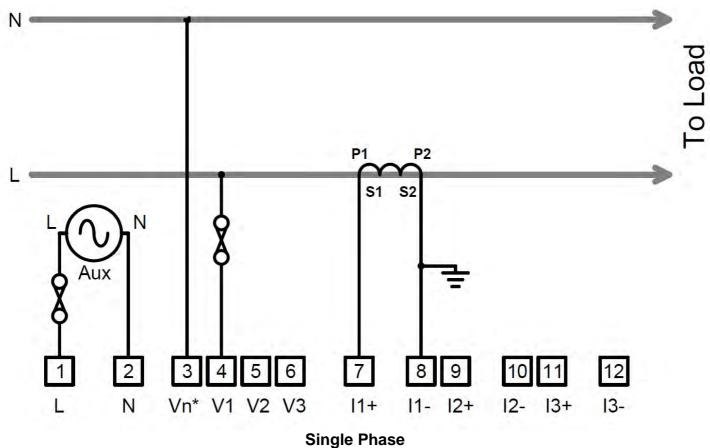
Voltage: 70Vdc/33Vac (13-14, 13a-14a) Cable: 30-14 AWG, Stripped 6.0 to 7.0mm

Torque: 0.5Nm (4.4in lb)

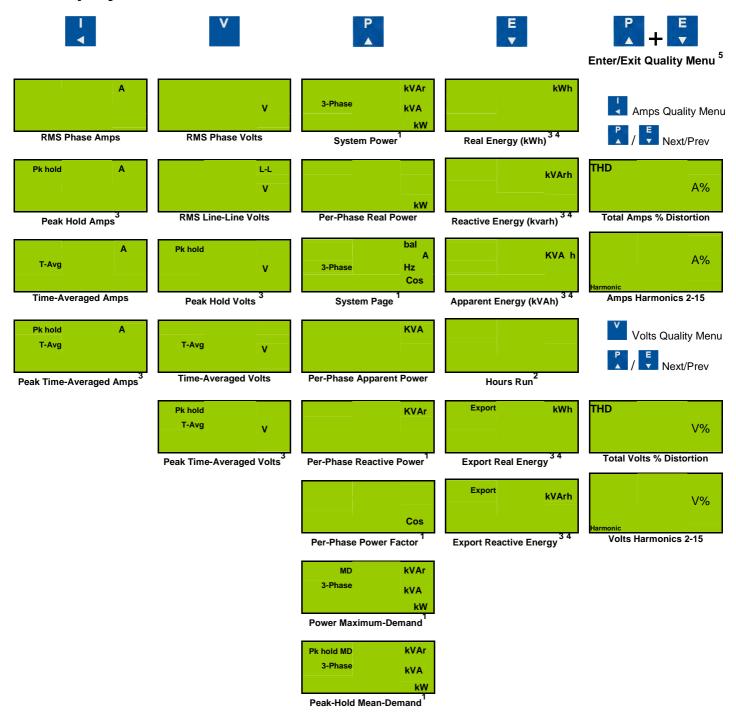
## 4.5 Typical Connections



3-Phase 3 or 4-Wire (\*Optional Neutral)



## 5 Display Menus



**Note 1**: A display of after a value indicates a capacitive load.

**Note 2:** The Hours Run register accumulates the total time during which the real power (kW) exceeds a preset level. This is always displayed with a resolution of 0.1hour.

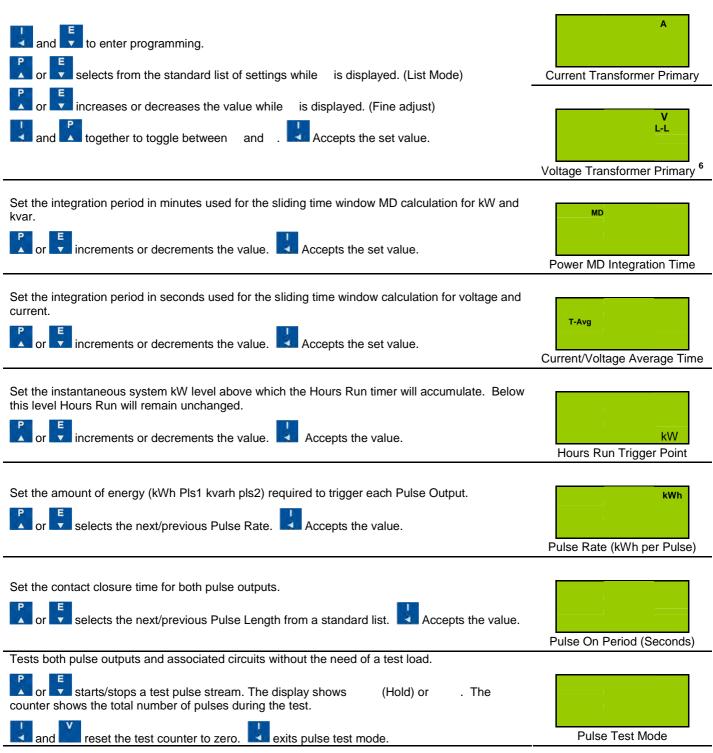
The percentage level of kW at which the Hours Run register accumulates is user programmable from 1% to 100% of full scale current. Hours run reset cannot be disabled.

**Note 3:** Press and together and hold for 2 seconds to reset the displayed value. This feature may be disabled before mounting in a panel. Refer to GIMA400 option links guide to disable.

**Note 4:** Scaling of the energy registers is set by the nominal input currents and voltages and remains constant during operation of the meter. Energy registers will each accumulate from zero to 99,999,999 then restart from zero.

Note 5: Power quality menus are optional on some meters.

## 6 Programming



**Note 6:** If external VT is not used, **DO NOT ALTER** the voltage transformer primary setting for any other system voltage i.e. for 110V, 208V, 230V system. **LEAVE Un (Voltage Transformer Primary Setting) TO 480V ONLY**.

If external VT is used, alter the voltage transformer primary setting as stated in the following examples. For 11000/110V VT, alter the setting to 48000 (multiplying factor: 11000 / 110 = 100 i.e. 480X100) For 6600/110V VT, alter the setting to 28800 (multiplying factor: 6600 / 110 = 60 i.e. 480X60)

# **Specification**

System 3 Phase 3 or 4 Wire Unbalanced Load or Single Phase Voltage Un 480/277V. 3 Phase 3 or 4 Wire Current In 5Amp from external CTs. (1A optional) Isolated at 2.21kV  Measurement Voltage 20% to 120% Un Range Current 0.2% to 120% Frequency Range Fundamental 45 to 65Hz Harmonics Up to 25th harmonic at 60Hz Individual to the 15th  Burden Voltage <0.1VA per phase Current <0.1VA per phase  Overload Voltage x4 for 1 hour Current x20 for 0.5 seconds max   DISPLAY  Type Custom, Supertwist, LCD Data Retention 10 years min. Stores kWh & Meter set-up Format 2 Rows x 4 Digits, 1 Row x 8 Digits + Legends Scaling Direct reading. User programmable CT & PT CT Primary programmable from 5A to 25kA VT primary programmable from 10V to 440kV  Legends Wh, kWh, MWh etc. depending on user settings  AUXILIARY SUPPLY  Standard 230V 50/60 Hz ±15% Options 110V 50/60 Hz ±15% Load 5 Watt Max. Overload x1.2 continuous		
Voltage Un Current In         480/277V. 3 Phase 3 or 4 Wire SAmp from external CTs. (1A optional) Isolated at 2.21kV           Measurement Range         Voltage         20% to 120% Un 20%           Frequency Range         Fundamental Fundamental Fundamental 45 to 65Hz Harmonics Up to 25th harmonic at 60Hz Individual to the 15th           Burden         Voltage	INPUTS	
Current In         5Amp from external CTs. (1A optional) Isolated at 2.21kV           Measurement Range         Voltage         20% to 120% Un           Frequency Range         Fundamental Fundamental 45 to 65Hz           Burden         Voltage Current Voltage Current <0.1VA per phase		
Measurement   Voltage   20% to 120% Un		480/277V. 3 Phase 3 or 4 Wire
Range   Current   0.2% to 120%	Current In	5Amp from external CTs. (1A optional) Isolated at 2.21kV
Frequency Range	Measurement	Voltage 20% to 120% Un
Harmonics		Current 0.2% to 120%
Individual to the 15th	Frequency Range	
Burden		
Current   <0.1VA per phase		
Overload         Voltage Current         x4 for 1 hour x20 for 0.5 seconds max           DISPLAY           Type         Custom, Supertwist, LCD           Data Retention         10 years min. Stores kWh & Meter set-up           Format         2 Rows x 4 Digits, 1 Row x 8 Digits + Legends           Scaling         Direct reading. User programmable CT & PT           CT Primary programmable from 5A to 25kA         VT primary programmable from 10V to 440kV           Legends         Wh, kWh, MWh etc. depending on user settings           AUXILIARY SUPPLY         Standard         230V 50/60 Hz ±15%           Options         110V 50/60 Hz ±15%           Load         5 Watt Max.           Overload         x1.2 continuous           METER ACCURACY         All errors ± 1 digit           kWh         Better than Class 1 per EN 62053-21 & BS 8431           Kvarh         Better than Class 2 per EN 62053-23 & BS 8431           kW & kVA         Better than Class 0.5 IEC 60688           kvar         Better than Class 0.5 IEC 60688           Amps & Volts         Class 0.1 IEC 60688 (0.01ln – 1.2ln or 0.1Un – 1.2Un)           PF         ±0.2° (0.05ln – 1.2ln and 0.2Un – 1.2Un)	Burden	
DISPLAY		
Type	Overload	· · · · · · · · · · · · · · · · · · ·
Type         Custom, Supertwist, LCD           Data Retention         10 years min. Stores kWh & Meter set-up           Format         2 Rows x 4 Digits, 1 Row x 8 Digits + Legends           Scaling         Direct reading. User programmable CT & PT           CT Primary programmable from 5A to 25kA         VT primary programmable from 10V to 440kV           Legends         Wh, kWh, MWh etc. depending on user settings           AUXILIARY SUPPLY         Standard         230V 50/60 Hz ±15%           Options         110V 50/60 Hz ±15%           Load         5 Watt Max.           Overload         x1.2 continuous           METER ACCURACY         All errors ± 1 digit           kWh         Better than Class 1 per EN 62053-21 & BS 8431           Kvarh         Better than Class 2 per EN 62053-23 & BS 8431           kW & kVA         Better than Class 0.25 IEC 60688           kvar         Better than Class 0.5 IEC 60688           Amps & Volts         Class 0.1 IEC 60688 (0.01In – 1.2In or 0.1Un – 1.2Un)           PF         ±0.2° (0.05In – 1.2In and 0.2Un – 1.2Un)		Current x20 for 0.5 seconds max
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Load       5 Watt Max.         Overload       x1.2 continuous         METER ACCURACY       All errors ± 1 digit         kWh       Better than Class 1 per EN 62053-21 & BS 8431         Kvarh       Better than Class 2 per EN 62053-23 & BS 8431         kW & kVA       Better than Class 0.25 IEC 60688         kvar       Better than Class 0.5 IEC 60688         Amps & Volts       Class 0.1 IEC 60688 (0.01ln - 1.2ln or 0.1Un - 1.2Un)         PF       ±0.2° (0.05ln - 1.2ln and 0.2Un - 1.2Un)	• · · · · · · · · · · · · · · · · · · ·	
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kW & kVA       Better than Class 0.25 IEC 60688         kvar       Better than Class 0.5 IEC 60688         Amps & Volts       Class 0.1 IEC 60688 (0.01In – 1.2In or 0.1Un – 1.2Un)         PF       ±0.2° (0.05In – 1.2In and 0.2Un – 1.2Un)		
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Amps & Volts         Class 0.1 IEC 60688 (0.01ln - 1.2ln or 0.1Un - 1.2Un)           PF         ±0.2° (0.05ln - 1.2ln and 0.2Un - 1.2Un)	•	
<b>PF</b> ±0.2° (0.05ln – 1.2ln and 0.2Un – 1.2Un)		
2012 (0.00111 11.2111 0.12011 11.2011)		
Neutral Current Class 0.5 IEC 60688 (0.05In = 1.2In)	l • •	
	Neutral Current	Class 0.5 IEC 60688 (0.05In - 1.2In)

PULSE OUTPUTS	
Function	1 Pulse per unit of energy
Scaling	Settable between 1 & 1000 counts of energy register
Pulse Period	0.1 sec. default; Settable between 0.1 and 20 sec
Rise & Fall Time	< 2.0ms
Туре	N/O Volt free contact. Optically isolated BiFET
Contacts	100mA ac/dc max; 70Vdc/33Vac max; 5W maximum load
Isolation	3.5kV 50Hz 1 minute
MODBUS® Serial Comms (Option)	
Bus Type	RS485 2 wire + 0v. ½ Duplex, ¼ unit load
Protocol	MODBUS® RTU with 16 bit CRC
Baud Rate	4800, 9600 or 19,200 User settable
Address	1 – 247 User settable
Latency	Reply within 250ms max.
Command Rate	New command within 5ms of previous one
Isolation	3.5kV
ETHERNET (Option)	
Electrical	IEEE std 802.3. 2000 Edition
Data Rate	10 Mbits/s
Protocol	TCP, UDP, DHCP, FTP, TFTP, HTTP, SNTP, SNMP
Connection Isolation	10/100 Base T - RJ45 3.5kV
GENERAL	J.JKV
Temperature	Operating -10℃ to +55℃ (14℉ to 131℉)
Tomporataro	Storage $-25\%$ to $+70\%$ (-13 $\%$ to 158 $\%$ )
Humidity	< 75% non-condensing
Environment	IP54 (when correctly mounted, as described, in a panel)
	Altitude <2000m (6561ft)
MECHANICAL	
Terminals	Rising Cage. 4mm <sup>2</sup> (12 AWG) cable max.
Enclosure	DIN 43700 96 x 96
Material	Mablex® with fire protection to UL94-V-O. Self extinguishing
Dimensions	96 x 96 mm x 83.5 mm (72 mm behind panel)
Weight	3.78" x 3.78" x 3.29" (2.83" behind the panel) ~ 250 gms
SAFETY	
Conforms to	EN 61010-1 Overvoltage Category III & BS 8431
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SIMPSON ELECTRIC COMPANY 520 Simpson Avenue Lac Du Flambeau, WI 54538 715-588-3311 Part #06-118351 Rev 01, 09/29/21