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 ins

Automatic voltage selection when inserted into GIMA® Power Meter MUST be rated to match

Option Module rating 4 VA Maximum

Load 4 VA Maximum

Isolation 2.5 kV continuous (supply internally wired

to GIMA® main inputs)

Mechanical (Options Module)

Enclosure Custom Options Enclosure Material Mablex, UL94-V-0

DimensionsOptions 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" of

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

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 cha

Load Impedance/Ext. 600V per channel (maximum 950V) 24V supply Supply

Internal (Unreg) Supply 250Ω per channel (maximum 500Ω) at nominal

Over Range Max output 21mA

Resolution 10 Bit (830 levels from 4mA to 21mA)

Effect of Loop Impedance <0.02% (0 Ω to 250 Ω)

Effect of Supply Voltage <0.05% for Vaux ±15% (internal supply, 250V load)

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)



