S. P. Wales Ltd
Electrical Metering Specialists

Carlo Gavazzi WM20 - Summary Sheet

The WM20 is a powerful MID approved panel mount meter that can be supplied with optional modules to enhance the functionality:

- Digital Output Module: The digital output module links alarms to static or relay outputs and can transmit pulses proportional to energy consumption.
- Communication Module: The communication module allows configuration and data transmission using various protocols, including Modbus (RS-485, TCP/IP), BACnet (RS-485, TCP/IP), and Profibus.

This highly accurate CT operated meter boasts Class 0.5 accuracy and can be used to monitor single, two & three phase supplies. It measures both Import & Export Energy, (kWh), and a number of other parameters including Current, (I), Voltage, (V), Active Power (W), Reactive Power (VAr) and Harmonic Distortion. It calculates both the maximum and average power values for the system and each phase, and the meter can be configured using the clear back-lit display or using the free Carlo Gavazzi UCS configuration software.

Specification

Meter Type	Three Phase
Fitting Type	Panel Mounted
Max. Current (Amps)	5
MID Approved	Yes
Smart	No
Input Type	Current Transformer
Output Type *	Modbus / BACnet / Profibus
Tariffs	Single
Import / Export	Import & Export
Accuracy class	C (Cl. 0.5)
Fuse Type (Volt. Ref)	315 mA
Fuse Type (Auxiliary)	630 mA
Availability	Special Order

* requires additional communication module

Part Codes

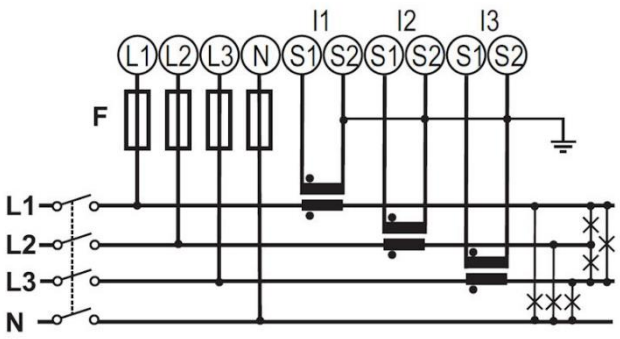
SKU	Type	Description
TPPCGWM20	Meter	Panel Mount Meter
MACGWMDS	Digital	Double static output
MACGWMDR	Digital	Double relay output
MACGWMMR	Comm.	Modbus RTU on RS485/RS232
MACGWMMT	Comm.	Modbus TCP/IP on Ethernet
MACGWMBE	Comm.	BACnet IP on Ethernet
MACGWMBR	Comm.	BACnet MS/TP on RS485
MACGWMPR	Comm.	Profibus DP V0 on RS485

Dimensions

Measured Parameters

Active Energy (kWh)	✓	Line Power Factor (PF)	✓
Active Power (W)	✓	Line Reactive Power (kVAr)	✓
Apparent Energy (kVAh)	×	Line to Line Voltage (V)	✓
Apparent Power (VA)	✓	Line to Neutral Voltage (V)	✓
Average Current (I)	×	Maximum Current (I)	✓
Average Power Demands (W)	✓	Maximum Power Demands (W)	✓
Average Voltage (V)	×	Maximum Voltage (V)	×
Current (I)	✓	Power Factor (PF)	✓
Current in Neutral (I)	✓	Reactive Energy (kVArh)	✓
Frequency (Hz)	✓	Reactive Power (VAr)	✓
Hours Run (hr)	✓	Total Harmonic Distortion (Amps)	✓
Line Active Power (W)	✓	Total Harmonic Distortion (Volts)	✓
Line Apparent Power (kVA)	✓	Voltage (V)	✓
Line Current (I)	✓		

Wiring Diagram



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