Panel Mountable Solution: WM20 Power Analyzer

**Applications**
- Capable of being part of a VMUC energy management system
- Can also be a stand alone energy management meter
- This is an ideal OEM product, for machines with high energy consumption (HVAC rooftop units, electric ovens) to replace several panel meters
- WM20 natively logs kWh but it can also be sold as a voltage, current or power meter

**Ordering Codes:**
- Up to 230VAC: WM20AV63H
- Up to 600VAC: WM20AV53H

**List Price:**
$450 + optional expansion modules

**Function:**
- Modular, 1/4 DIN, revenue grade power analyzer for 1 or 3-phase systems
- Also available: More sophisticated, high-end WM30 Power Quality Analyzers and WM40 with Built-in Data Logger

**Code Specifications**
- Measurement of V, A, W, VA, Var PF, Hz, THD
- Recording of +/- kWh and kvarh
- Optical port in front of the meter
- 0.2% accuracy V and I measurements
- Class 0.5 active energy accuracy
- Options for additional communication modules
- Options for additional digital outputs
- 115/230 VAC supply voltage
- 5A current transformer inputs
- cULus, CE

**Software:**
- Works with Universal Configuration Software
- Software is free of charge

**Required Add-ons**
- Full range of CTD Series current transformers

**Optional Add-ons**
- Modbus serial and TCP/IP modules
- BACnet IP and MS/TP modules
- Profinet DP module
- Dual digital output, relay or transistor

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DIN Rail Mountable Solution: EM24 Energy Analyzer

**Applications**
- Capable of being part of an energy management system
- An ideal OEM product for applications where any electrical variable needs to be measured
- Great complementary energy monitoring product for electrical panels
- Could replace several voltage/current/phase monitoring relays
- Applications include: plastic machines, solar charging systems, UPS systems, switch gear, etc.

**Ordering Codes:**
- Up to 230VAC: EM24DINAV63DISX
- Up to 600VAC: EM24DINAV53DISX

**List Price:**
$599

**Function:**
- Non-modular DIN rail mountable energy analyzer for 1 or 3 phase applications

**Code Specifications**
- Measurement of V, A, W, VA, Var PF, Hz, THD
- Recording of +/- kWh and kvarh
- Counting of external energy pulses
- 0.5% accuracy V and I measurements
- Class 1 active energy accuracy
- RS-485 Modbus RTU communication
- Three digital inputs
- 115/230 VAC supply voltage
- 5A current transformer inputs
- cULus, CE

**Software:**
- Works with EM2426 Configuration Software
- Software is free of charge

**Required Add-ons**
- Full range of CTD Series current transformers

**Optional Add-ons**
- Modbus serial and TCP/IP modules
- BACnet IP and MS/TP modules
- Profibus DP module
- Dual digital output, relay or transistor

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VMUC Data Logger

Applications
- Small, medium and large customers that require a cost effective and simple system to record, monitor and transmit electrical instantaneous variables and electrical energy usage
- Customers that are tired of paying monthly fees for rental of energy monitoring or data hosting systems.
- Submetering in apartment buildings. VMUC can act as a data logger for meters and data gateway to a billing server

Ordering Code: VMUCEMAWSSUX List Price: $1,238

Function:
Microprocessor based, modular data logging system that records, monitors and transmits analog and digital signals from network of energy meters and various types of sensors. The VMUC can be a stand alone energy management system, or be a part of existing building automation system.

Code Specifications:
- Simple and powerful system that can log electrical parameters from up to 32 Carlo Gavazzi energy meters
- Expandable system that can log data from up to 3,200 meters, with help of data aggregators and server grade software
- Logs data from temperature probes, analog and pulse rate sensors with help of optional VMU I/O modules
- RS-485, Ethernet or USB connectivity from meters to data logger
- Ethernet connectivity for user interface, supported protocols include HTTP, FTP, Modbus TCP/IP
- Data backup with ether micro SD card or USB flash drive

Software:
- In a typical application only a standard web browser is required
- Firmware updates are free of charge for as long as the hardware version is supported
- Demo webpage of a working VMUC installation: http://www.carlogavazzi-vmuc.com/
- Contact CARLO GAVAZZI’s technical support department to arrange a walkthrough and/or to obtain the user name and password

Required Add-ons:
- 24VDC power supply, consult data sheet for required wattage
- WM20, EM24 or any other compatible energy meter with Modbus communication

Optional Add-ons
- VMU-D cellular modem module
- VMU-O I/O modules for digital inputs and outputs
- VMU-P environmental modules for connecting temperature probes and analog inputs
- VMU-M for expanding number of digital and analog inputs that can be connected to VMUC
- VMU-Y data aggregator for expanding data logging capability from 33 to 320 meters
- EM2 Software for expanding data logging capability from 321 to 3,200 meters

VMUC datasheet http://www.carlogavazzi-vmuc.com/