GreenVoltMeter

GVM100

The GVM100 controller is intended to measure supply voltage in single-phase and three-phase electrical networks and remotely read the measured data using LonWorks communication standard. It enables continuous monitoring of the state of electrical installations and infrastructure components such as fuses, contactors, relays, etc.

As a result of using open data transmission standard LonWorks PLC (Power Line Communication – communication utilizing power lines) the GVM100 controller can be used in every installation built according to the standard especially in Smart Grid Networks, Smart Street Lighting systems, building control (BMS) as well as in the installations requiring real-time power supply parameters monitoring..

The GVM100 Controller registers whether set limiting values are exceeded and thanks to the built in Real-Time Clock (RTC) with a battery backup enables precise time of the event reading.

The controller supports advanced network information flow control technology (routing) which allows building wide area networks (over 5km range in a typical power supply network). Additionally the communication is configured dynamically.

GVM100 software is compliant with LonMark standard which enables very easy integration within any system utilizing the same standard or SCADA software.

APANET is a leading manufacturer of smart street lighting control systems significantly reducing networks management and maintenance cost.

Main advantages:

- ✓ independent voltage metering across 3 channels;
- ✓ separate, self-sufficient power supply enables power outage registering;
- ✓ remote monitoring of power lines parameters (fuses, contactors, relays, switches, etc.);
- ✓ advanced routing algorithms – wide network range;
- ✓ low installation cost – PLC communication using existing 230VAC power lines;
- ✓ LonWorks compatibility;
- ✓ LonMark compatibility.

Parameters:

- Measurement accuracy class: **2,5**
- Range: **0-265VAC**
- Input voltage: **230VAC**
- Mounting: **DIN rail**
- Communication: **CENELEC C EN50065-1**
- Connection: **2.5mm² terminals**
- Dimensions: **105x75x45mm**
- Weight: **360g**
- Ambient temperature Ta: **-40ºC ÷ 55º**

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