GSM and 4G Terminal Datasheet



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V.25.1

1.1. General Features

HT G13/G14 GSM communication terminal and HT G16/G17 4G communication terminal enable remote monitoring of electronic electricity meters and devices that support the Modbus protocol, such as power factor controllers and energy analyzers. It provides communication with electricity meters via optical, RS-232 (3-wire) or RS-485 (2-wire) communication ports, and with devices with Modbus protocol via RS-485 port.
In order for the communication terminals to establish an internet connection, a M2M (data) capable SIM card with a capacity of at least 100 MB must be inserted into the device. If a PIN code is defined on the SIM card, the PIN code must be canceled by inserting it into a mobile phone.
HT G16/G17 4G communication terminals query the data on the connected devices and send it to the Grup Arge servers over the 4G network (mobile phone network).
HT G13/G14 GSM communication terminals query the data on the connected devices and send it to the Grup Arge servers over the GSM network (mobile phone network).
If a 2G SIM card is inserted in the HT G16/G17 4G models or if a 4G network is not available, the terminal uses the 2G GSM network to communicate with the Grup Arge servers.
You can access the data of all your devices by visiting our website at www.enerjitakibi.com with your user account provided to you.
The main reports presented on the web interface are as follows:

- Active consumption reports
- Reactive rate reports
- Instantaneous electrical parameters such as current, voltage
- Step values (Only for power factor controllers)

In addition, in certain alarm situations, the system notifies the relevant persons via e-mail and SMS alerts.

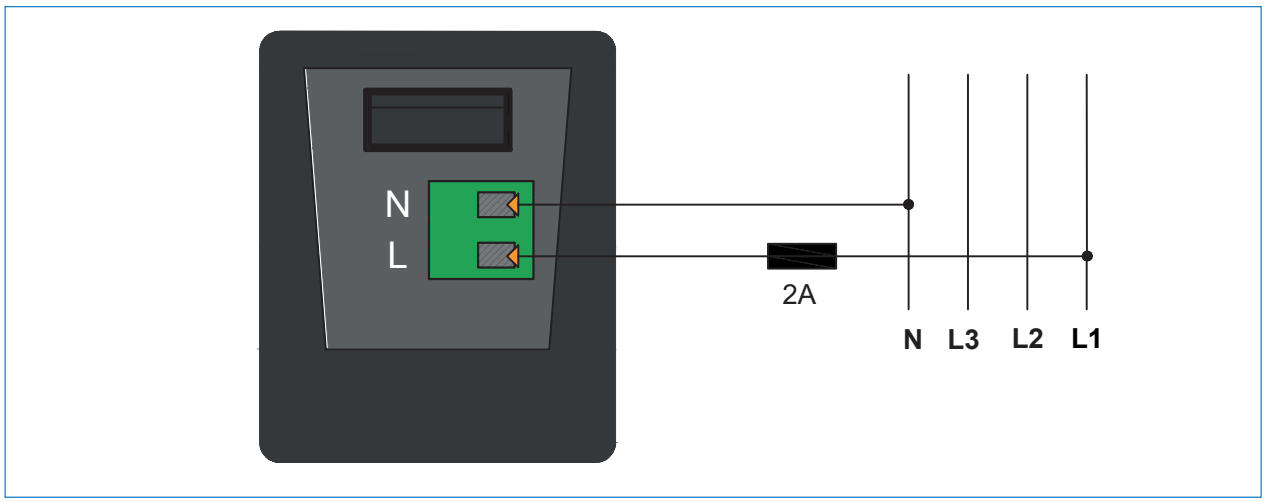
1.2. Technical Features

- Microprocessor based.
- HT G13 GSM Terminal and HT G16 4G Terminal operate with 85-265 V AC and 9-24 V DC supply.
- HT G14 GSM Terminal and HT G17 4G Terminal operate with 85-265 V AC supply.
- Supports RS-485, RS-232 and optical port communication channels.
- It can communicate with all meters that support TS EN 62056-21 protocol.
- It can read 32 meters and 247 Modbus devices via RS-485.
- It has LEDs indicating RS-485/Optical/RS-232 (Communication), GSM/4G connection and internet status.
- Data sending period can be set between 1 min -240 min.
- It has a system architecture that does not require static IP.
- It has wired GSM antenna support for places where GSM network signal is weak.

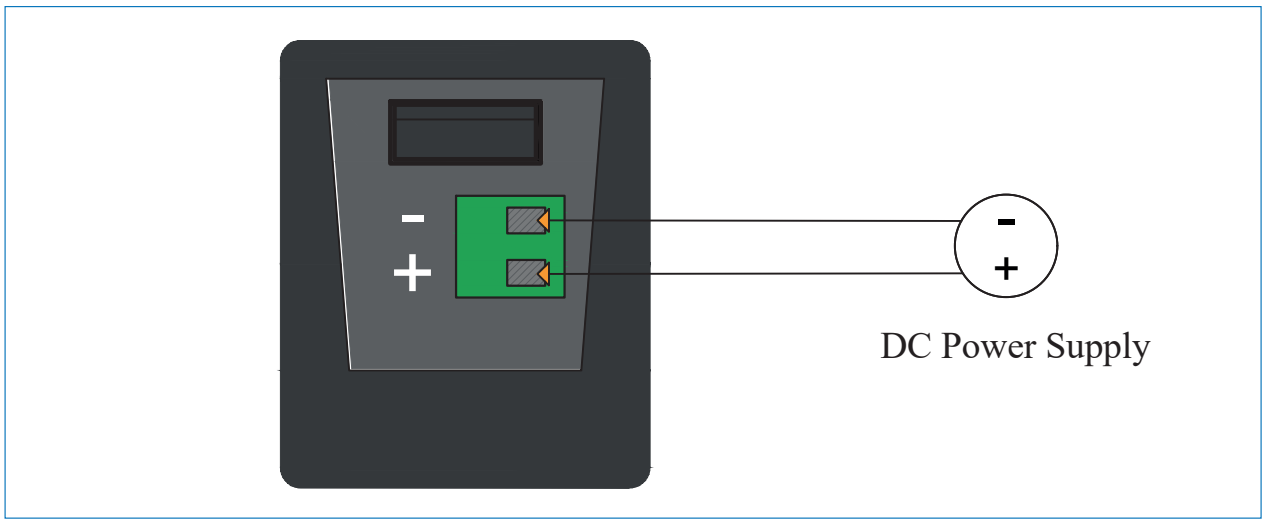
- Compatible with M2M data lines of all GSM operators.
- The operating ambient temperature of the device is between -10 °C and +55 °C.
- Supply consumption power is less than 1 VA.
- IP40 protection class.
- Dimensions of the device are (Width-Length-Depth) 35 x 110 x 80 mm

1.3. SUPPLY CONNECTIONS

1.3.1. AC Supply Connection



1.3.2. DC Supply Connection



1.4. Technical Drawing

