

grup ARGE

Temperature-Light Sensor User Manual



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PROPER USE AND SAFETY REGULATIONS



Cut all the power when connecting and disconnecting the device to a panel.



Do not clean the device with a solvent or similar material. Only use a dry cloth.



Please do not intervene to the device when a technical problem is encountered and get in contact with a technical service within the shortest time.



If the warnings are not taken into account, our company or the authorized dealer shall not be held responsible for the negative consequences.



Do not dispose in the trash, the device must be delivered to the collection centers (electronic device recycling centers). It should be recycled or disposed of without harming human health and environment.



The installation, assembly, activation and operation of the device should be done and used by only expert professionals and in accordance with safety regulations and instructions.



The device operates with current transformers. Do not strictly leave current transformer tips unattached. Dangerous high voltage can occur.

1. INTRODUCTION

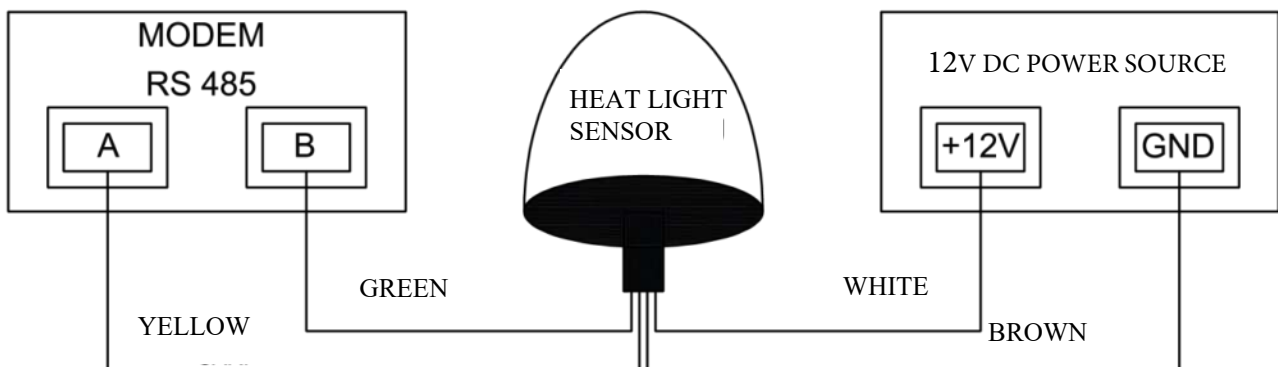
1.1 General Features

It is used with Heat-light meter device, Ethernet Terminal, GSM Automation Terminal or GSM Terminal. While measuring the environmental variables such as temperature and intensity of light, within the specified value ranges. It enables the turn on or off operation of the monitored device through the output module.

1.2 Technical Features

- Microprocessor based.
- It works with 12 V DC supply.
- It supports RS-485 Standard Modbus RTU protocol.
- Cable cross section is 4 x 0,22 mm².
- The intensity of light measurement range should be between 01-10000 lux. dir.
- A cable outlet is available for direct terminal connection.
- The temperature measuring range is -55 °C to +150 °C
- The device weight including the connecting cable is 40 grams in total .
- The dimensions of the device are (Width-Length-Depth) 50 x 50 x 50 mm .
- The power consumption is less than 1 VA.
- It has IP40 protection class.

2. Connection Diagrams



Shape 2.1

3. COMMUNICATION PARAMETERS

3.1 COMMUNICATION PARAMETERS

Baudrate	9600 bps
Data bits	8
Parity	None
Stop bits	1

✚ **NOT:** *The default MODBUS address is the number obtained by adding 100 to the last two digits of the serial number of the device. For example, suppose the serial number is 185247. Since it ends with 47, the MODBUS address becomes 147.*