# grup ARGE

## Optical Reader
## Instruction 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 and 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. GENERAL FEATURES

It is designed to provide information exchange about the electronic devices that communicate with IEC1107 (IEC62056-21) protocol from the optical reader.
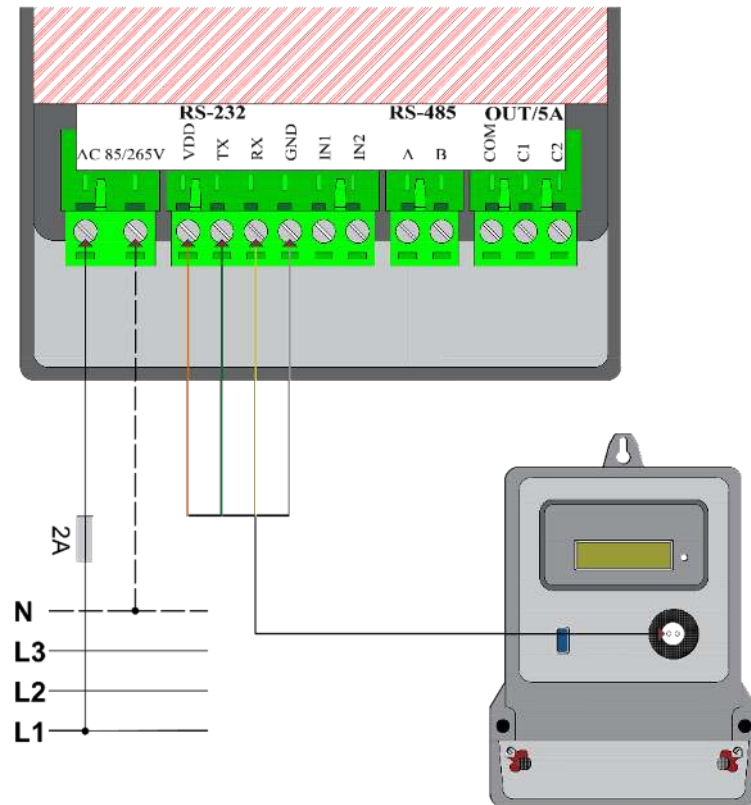
It is used for GSM and Ethernet based modems used in communication with meters to read data from meters.

Optical reader is attached to the metal surface in the optical eye of electric meter with the arrow mark on the label facing up.
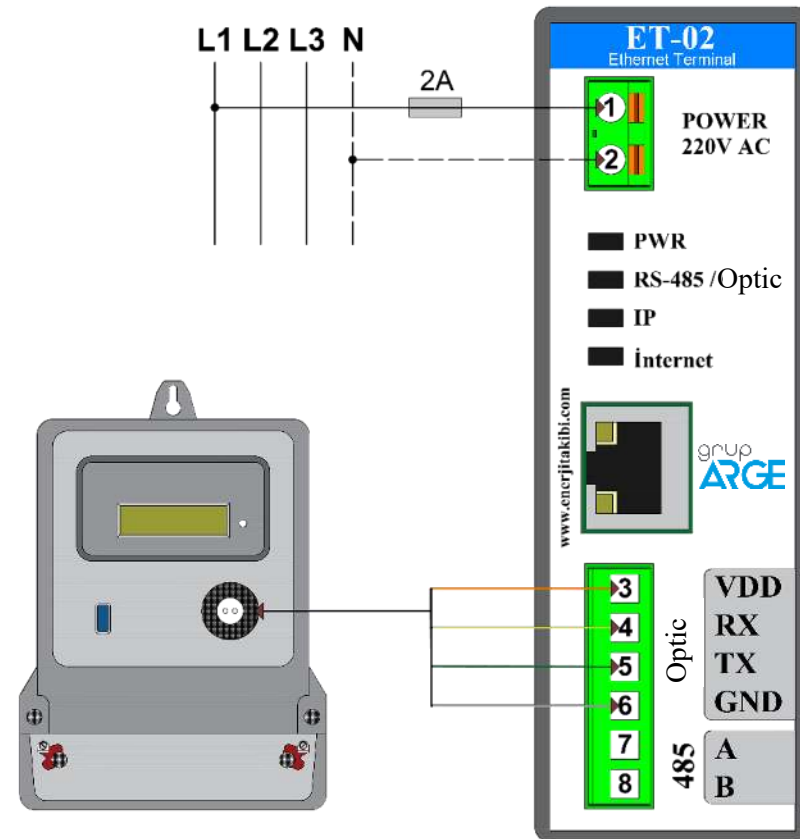
# 2. TECHNICAL FEATURES

| | |
|---|---|
| Communication Protocol | IEC1107 (IEC62056-21) |
| Cable Section and Its Length | 4 x 0.22 mm$^2$, 2.5m |
| Operating Temperature | -10ºC / +55ºC |
| Magnet | Neodymium magnet |
| Connection Style | Terminal connection |
| Weight | 100 gr (with cable) |
| Assembly | Assembly to optical port metal surface |
| Protection Class | IP20 |
| Max. Connection Speed | 19200 bps |

# 3. CONNECTION DIAGRAMS

**GSM Automation Terminal**
**Optical Reader Connection Diagram**

**Ethernet Terminal**
**Optical Reader Connection Diagram**

# 4. DIMENSIONS OF THE DEVICE