



TM-100

Transparent Modem

Overview

TM-100 is a telecommunication modem with 2G/3G/4G communication coverage and has an RS485 electrical port with the DLMS protocol support.

TM-100 transmits data in Direct HDLC format with devices through RS485 port and transmits data with central application in DLMS Wrapper protocol, according to this, TM-100 converts the Wrapper format to Direct HDLC, and vice versa.

The communication interactions of the modem with the central management software, including sending and receiving commands, data, settings related to the modem are done in the DLMS/COSEM standard format. It is possible to set the modem both locally and remotely.

Advantages

The stability of communication with different equipment is fundamentally improved and it will be possible to access equipment at any time. The problem of the device not receiving signal can be solved by installing the external antenna in a suitable place. It is possible to change the SIM card without opening the door of the device. Topics such as authentication and data encryption have been covered in this device by implementing the full DLMS/COSEM protocol. Other advantages of equipment reading are as follows:

- Reducing reading costs
- A solution for impossible readings from the equipment
- Increasing speed and accuracy by eliminating the human factor and the resulting error

General Specification

- ▶ Operating temperature: -25 to +65 °C
- ▶ Storage temperature: -40 to +70 °C
- ▶ Weight: 556 gr
- ▶ Dimension: 58x112x160 mm
- ▶ Operating humidity: 0-95%



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Technical Specifications

According to the specified standards of industrial devices (EMC, Watch Dog, etc.)

Smart processor

Upgrade the firmware remotely and locally with the standard DLMS protocol

Setting device parameters with standard DLMS protocol

Data encryption between devices and central server for data security according to DLMS standards

GPRS platform with 2G/3G/4G coverage

External antenna with the ability to install anywhere

Connect with dynamic/static IP

Built-in RTC

Internal flash memory

RS485 communication port

Connecting 1 to 128 meters through the RS485 bus

Optical port

Power Source: 100-500 VAC
100-700 VDC

Communication: GPRS
Optical port

GPRS Module

LTE-FD: B1/B3/B5/B7/B8/B20

LTE-TDD: B38/B40/B41

WCDMA: B1/B5/B8

GSM/EDGE: B3/B8

