

PR-310 Handheld Terminal Unit

Handheld unit PR-310 is a good tool for you to program and read data from electricity meters.

PR-310 offers two virtual hard disks for data storage:

Flash

Where user can store software to save RAM space

RAM

The memory space is 700K or more, can save many records which have been read from meters and configuration parameters.

The file management system is same as PC, parameters are saved in PR-310 in files, and records saved in PR-310 in with database. It's convenient for user to manage these data.

Communication Interfaces

RS232: Through which PR-310 can communicate with PC to download software and upload reading records.

RS485: Through which PR-310 can program, read meters and perform on-site diagnosis.

Infrared remote control: Software-modulated mode; effective distance is about 4-5 meters.

Optical orifice control: It is compliance with IEC1107 standard, and PR-310 can read ABB, Landis+Gyr etc meters with it.

IrDA remote control: While the amount of meter-reading data increases, the old low-speed infrared communication can't meet the requirement, so PR-310 is designed to work with the new IrDA standard.

The Shipping Components of PR-310 Terminal

- Handheld unit PR-310
- RS485 wire
- RS232 wire
- Software
- Handbag
- Battery (1300mAH)

Optional components:

- IrDA port
- IEC1107 port
- Battery-Charger

Main Technical Features

CPU: AMD188

Frequency: 11MHz

Memory:

ROM's memory space is 512K bytes

RAM's memory space is 1M bytes

LCD: 128x64 lattice LCD (with LED backlight)

Connection port: To connect to RS485 or RS232

Keyboard: 30 keys, user can input English letters

Power supply: 5 batteries (AA) for work power; and 1 battery (lithium, 3V) for data backup



Operations

Enter or Exit procedures

In the interface of power-on, PR-310 is controlled by system. If correct Autoexec.bat and software (PRENG_04.exe) are saved on hard disk, user can press "ENTER" to load software directly. Now PR-310 is controlled by user application. It can return control to system by pressing "ESC".

Use System Functions

In the power-on interface, pressing "F1" key will display function menu. Screen Display is as following:

Configuration

The system configurations include timer's settings and security settings.

Password is needed to turn on PR-310. If password is not correct, then user can not use programming software.

1. Timer Setting:

The first item is "Timer XXm" in menu of "Config". The "XXm" is auto-off time of PR-310. If user wants to change this value, please press "DEL" to select it; then press "Enter" to confirm the operation; press "ESC" to quit the operation.

2. Security: Set up password

The second item is "Security setting", please select it at first.

Then input old password at the position of the first line (The old password must be correct, otherwise the next operation couldn't be carried on). Please press "Enter" to confirm the operation after completing input. If you want to quit the operation please press "ESC".

3. Then input new password at the position of the second line. Please press "Enter" to confirm the operation after completing input. If you want to quit the operation please press "ESC".

4. Input new password again at the position of the third line. Please press "Enter" to confirm the operation after completing input. If you want to quit the operation please press "ESC".

Execution of Procedures

"Execute" can list all executable procedures (*.exe). User can select one by moving the highlight cursor, then press "Enter" to load it.

Options – communications options

First select Comm: Please move the cursor to first line, then press "DEL" to select, press "Enter" to confirm at last. If you want to drop the selection, you can press "DEL". The selections include RS485, RS232 and IrDA.

Selecting baud-rate: Options include 150,300,600,1200,2400,4800,9600 and 19200

Initialization: The selection can restore baud-rate to 9600

SysInfo

"SysInfor" can make user know the information of file in PR-310.

Select "RAM": Display all files in the memory space of RAM.

Select "ROM": Display all files in the memory space of ROM.

Transfer – files transferring

"Transfer" can be used for the communication between PR-310 and PC. In communication state you can upload procedures to PR-310, or download procedures from PC, or erase procedures on PR-310.