



**Note: This user's guide is adapted to software version 1.8.1 dated 18/01/2010.**

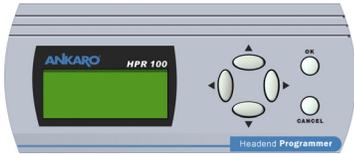
For future software updates, you can download the user's guide from the following website:  
<http://www.ankaro.com/>

## Chapter 1 Installation.

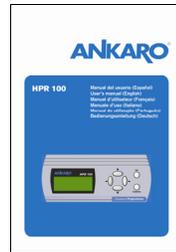
### 1.1 Safety Measures

- 1.- Never place the device next to hot sources.
- 2.- Never undergo the equipment to temperatures that exceed its the level of operation.
- 3.- Avoid locations with possibilities of spilling liquids on the inside of the device, and with important changes of temperature.
- 4.- Never open the equipment yourself due to electric risk. In case of problems, go always to qualified technicians.
- 5.- Never place any heavy object over the device, as it could get damaged

### 1.2 Box content



HPR 100



User's guide



RS-232 Cable



RJ-45 Cable



SD Card

### 1.3. Descriptions and connexions

This device has been specifically designed for programming modules that allow this function.

The feeding of HPR 100 is provided directly from the module that has to be programmed, except for HSAR/HTAR series, which needs a DC injector for feeding the programmer.

In the big sized (20 x 4 characters) LCD display appears all the necessary programming menus of the module.

In order to surf through all the menus of each programmable module, HPR 100 is provided with a keyboard composed by 6 keys that, intuitively, allow an easy selection of the parameters that have to be programmed.

Due to the constant changes and appearing of new modules, not initially foreseen, this programmer allows updating the firmware that it incorporates easily, in order to adapt itself to new needs.

HPR 100 incorporates a SD card reader that allows the user to program and update the different devices from the programmer, apart from increasing the storage capacity.

In case that the programming of any modules is not allowed because the firmware is not adapted, in the display you can see the Firmware version and which are the modules allowed by that version, in order to facilitate the detection of the error.



**Note:** SD card must be inserted always in HPR 100 for the correct working of the programmer, since due to the variety of available devices their configuration is saved in the SD cards. This way, when the programmer detects de module, it search the configuration of this module in its inner memory first, and after in the SD card, if it does not find it, it does not allow the programming.





### 2.3.1 Folders

Two new folders will be created: *Programs* and *Channels* the first time you insert the card in the programmer. In case this card had such folders created already, the programmer only will verify the format.

#### Channels

The *Channels* folder will keep the different configurations of the devices that are programmable from HPR 100 (HSAR 100, HTAR 100, etc).

#### Programms

In order to detect the different modules, the programmer must have saved in the *Programs* folder the files of the different groups of devices:

- HPR\_1.upg: HTAR / HSAR series.
- HPR\_4.upg: Transmodulators, regenerator, etc.



**Note:** If we do not have the database that corresponds to the module we wish to program, the programmer will not be able to detect the module.

The new software versions of the devices that are programmable through HPR 100 will be also saved in *Programs* folder and this way the updating can be done directly. This new option will avoid having to take a PC to the installation when a device has to be updated.

### 2.4 Configuration saving

Once the different devices (HSAR 100, HTAR 100, etc) are programmed, HPR 100 allows saving the different configurations in the *Channels* folder in the SD card.



**Note:** The maximum length of the name of the files in the SD is 8 characters; therefore if they exceed this number they must be re-named.

### 2.5 Updating

The updating files of HPR 100 programmer can be found in our website [www.ankaro.com](http://www.ankaro.com).

#### 2.5.1 Updating by the means of SD card

Before introducing the SD card in the HPR 100, it is necessary to introduce the updating file in the *Programs* folder of the SD card, and then to connect the HPR 100 with the SD card already inside.

When the programmer starts it will detect the new software version and will offer the possibility of updating the programmer. Press **OK** to start the updating or **CANCEL** to leave the main menu of the device you are connected to.

```
ANKARO - HPR100
New Firmware:
OK for upgrading
CANCEL to Exit
```

If you chose to make the updating, the programmer will follow the next steps:

```
ANKARO V:1.8.1
Updating
Firmware
Please wait
```

```
ANKARO V:1.8.1
Updating
Resources
Please wait
```

```
ANKARO V:1.8.1
Universal Programmer

18.01.2010
```

1. Updating Firmware

2. Updating resources

3. Updating finished

## Chapter 3 Technical features

<b>Reference</b>	<b>HPR 100</b>
<b>Code</b>	20018.11
<b>Protocol</b>	I2C
<b>Display</b>	20 x 4 caracteres
<b>Size (cm)</b>	7 x 3,2 x 17
<b>Connector</b>	DB9 male, RJ45
<b>Memory card</b>	SD (Format FAT 16)
<b>Memory card max. Capacity</b>	2GB
<b>Feeding (V)</b>	12-24
<b>Consumption (mA)</b>	20

## Chapter 4 Declaration of conformity



## CONFORMITY DECLARATION

"WE , ANKARO, DECLARE THAT THE PRODUCT  
HPR 100  
IS IN CONFORMITY WITH FOLLOWING DIRECTIVES  
Low Voltage Directive 2006/95/EC  
EMC Directive 2004/108/EC"

If you wish a copy of the conformity declaration, please contact to the company