Telereport Plus GSM

Guarantee

The equipment is warranted for a period of 2 years from the date of invoice (ex-works). The warranty does not cover faults provoked by carelessness, natural causes and parts subject to wear. In addition, the cost of labour and shipment is not covered. The warranty will be voided if the equipment is mishandled.
AEV VIA DELLA TECNICA N.35 I-40050 ARGELATO (BO) ITALY
Web site: www.aev.eu WWW. Email : info@aev.eu

Feedback

AEV welcomes your comments on our products. Your suggestions may be extremely useful to develop new equipment and manuals and this will be of benefit to you too! Let us have your comments on our products and we will be pleased to read them.
Send your information by e-mail to the following address: service@aev.eu, or send a letter to the AEV SERVICE Department.

Technical Support

If you require technical support, contact AEV SERVICE giving a clear and concise account of your specific problem. Quote the serial number of your equipment by referring to the AEV nameplate attached to the equipment itself as this is the most important piece of information to be provided.

Factory Service and Repairs

If problems arise while the equipment is being installed, consult this manual and check that the installation is being carried out properly. If the problems still cannot be solved, call the AEV SERVICE Department for further information. If the problem is a minor one we can a telephone call will probably suffice. If, on the other hand, the equipment is to be shipped to AEV for service or repairs, the AEV SERVICE Dept. will accept it only if the RMA return authorisation number has been provided. This number must be included in the shipping documents. We also recommend providing a detailed description of the fault which has occurred, the type of service needed and (if required) the name of the employee at the AEV SERVICE Dept. you have spoken to. No repairs will be made if the cost of shipment is charged to AEV. In this case, we will not accept the delivery.

Shipping Instruction

When shipping the equipment to AEV, use the original package in order to be certain that it will be fully protected during handling. If you need the original package, call us for a new one.
If you ship the equipment in a different packing container, take care to provide a double package by interposing padding material between the two containers in order to fully protect the equipment during shipment. The package should be marked "FRAGILE" in red.
Remember that the RMA number must be clearly visible on the package. If it is not, the equipment will not be accepted.

SAFETY PRECAUTIONS
IMPORTANT: Carefully read this paragraph as it contains important instructions concerning operator safety and directions regarding the installation, operation and maintenance of the equipment.
Failure to observe the safety instructions and information given in this manual **constitutes an infringement of the safety rules
and design specifications provided for this piece of equipment**.

Futurcom. declines all responsibility if any one of the safety rules given herein is not observed.

Futurcom declines all responsibility if the end-user resells the product.

The equipment is to be used by people capable of operating it in a trouble-free manner and **it is assumed that they are aware of the following safety rules.**

• Keep this manual with the utmost care and close at hand so that it can be consulted whenever needed

• After unpacking the equipment, check it for condition.

• Avoid banging the equipment.

• The packing material (plastic bags, polystyrene, nails, etc.) must never be left within the reach of the children, as **these items are potential sources of danger**.

• Do not use the equipment in places where the temperature is not within the recommended range, as specified by the manufacturer.

• Before connecting the equipment, make sure the nameplate specifications correspond to the mains electricity supply (the nameplate is located on the equipment enclosure).

• Do not remove the sticker from the equipment as it contains important specifications and the relevant serial number.

• To join the equipment to the mains supply, use the power cord purchased with the equipment.

• The equipment must be used only for the purpose it was designed for.

• Abuse or misuse of the equipment is **extremely dangerous** for people, pets and property. The manufacturer declines all responsibility for damage and injury resulting from **improper use** and **mishandling**.

• Certain basic safety rules must be observed when using electrical equipment, in particular:

- Never touch the equipment with wet and/or damp hands or other parts of the body.
- Keep the equipment away from drops of water or sprinkling systems.
- Never use the equipment near high heat sources or explosive material.
- Do not introduce any extraneous matter into the equipment.
- Do not allow children or untrained people to use the equipment.

• Before cleaning or servicing the equipment outside, disconnect it from the supply and wait at least 2 seconds before working on it, as recommended by current safety regulations.

• In the event of faults and/or improper operation, turn off the equipment, shut off the electrical power and call your dealer. covers/guards or circuit boards are to be removed.

• Blown fuses inside the power supply indicate that there may be a fault in the power supply itself. The fuses must be replaced by qualified and authorised persons. It is advisable to call your nearest dealer.

• Call your dealer for any repairs and be certain original spare parts are used. **Failure to observe this rule may adversely affect the safety level of your equipment**.

• The equipment is to be connected to the mains supply and provided with adequate and efficient earth conductors.

• The electrical wiring must be done in compliance with current electrical codes CEI 64-8 "Electrical specification for domestic buildings".

• When installing, leave a clearance of at least 1 cm around the equipment to allow air to pass freely.

NOTE. This piece of equipment has been manufactured to the highest standards of workmanship. It must be used properly and serviced as recommended to ensure long-term dependable operation.

The installation must be done in order to be able to guarantee an easy access to the cable of feeding.

The device of dissection of the equipment is the cable of feeding, so it must be unconnected from the equipment every time it is ecessary to do any type of maintenance.

Contents

Introduction

General features

TELEREPORT Plus is the new portable phone device (with echo canceller) devised by AEV ultra-decennial experience in the broadcasting phone systems sector.
Its reduced size and weight are the ideal solution for reporting services by audio transfer both via dial-up and mobile phone lines.
It is specially suited for conditions where the available operative range for the reporter is limited.
This device is housed inside a shock-resistant case. On the upper panel, with the keyboard, there is a LCD display (65x14), which displays the instrument status and all the standard displays usually found on GSM mobiles. The scrolling between menus is carried out with the keys "ARROW KEY", also located on the front panel with the numeric keyboard, which is used for dialing and to store/recall the corresponding numbers.

Main Functions

_ µP total operation, which, via a DSP circuit, allows the blanketing of line echo, in the event of a call on a dial-up line.
_ Parametric filter able to equalize the incoming audio signal, thus optimizing the frequency response and gain of the signal received based on the quality of the line available.
_ Option of a GSM internal module, with external aerial: it can be connected to the TELEREPORT PLUS via the connector located on the front panel. A connector " CELL" is also present, this allows to use an external GSM
_ NiMh high efficiency inside batteries. Their recharging is controlled by a specific circuit, assuring maximum efficiency and life.
_ Ringing and busy tones detection.
_ DTMF tones detection and replay.
_ Generation of the test tone to adjust the audio via the phone line.

Main Features

_ Two inputs, which MICRO/LINE selection is carried out with the switch located on the rear panel.
_ Two headset outlets with the volume adjustable directly with the specific keys on the keyboard located on the upper panel, with level range on display.
_ REC outlet, with the volume adjustable from the specific menu and level range on display.
_ With the upper panel keyboard and with the display it is possible to access different functions such as:

AEV Telereport Plus

Upper panel

1 - Alphanumeric display.
2 - Keypad for numbers keying in and storing/recalling.
3 - Arrow Keys for shifting and for parameters settings within the menus and sub-menus.
4- Specific keys for regulating the head-sets level.

Front panel

1- On switch.
2- Hook-on line Switch.
3- Aerial connector
4- SIM CARD slot

Rear panel

1- 5Vdc Battery charger connector
2- Charged battery signal led
3- Recharging battery signal led
4- Input for micro/line 2
5- Input selector for micro/line 2
6- Input selector for micro/line 1
7- Input for micro/line 1
8- Phone line connector
9- Rec output
10- Output for headset 2
11- Output for headset 1
12- Connector for external GSM connection

Operations

Now, we shall analyze Telereport Plus different setups.

On switching on, it is displayed the device I.D. and the software version installed, this data will be requested by AEV customer service, when calling

```
Telereport  Plus
    Ver.:T0010
```

After this menu, it will be displayed, in sequence, a series of tests carried out by Telereport Plus, these are: "Sim Absent ....!", "Network Wait...." and "GSM Wait....". These messages are standard, at the end of this operation, if the GSM option is installed and activated, the following menu is displayed, which also displays the type of network and the signal received.

```
I OMNITEL ¥!!!..
............ -I1
```

It is important to point out some modalities which are always used for the different menus shifting and settings.

With the "Arrow Keys" UP & DOWN you can shift within the menus; by pressing both, you can access the Advanced Menu, which allows to carry out changes to those parameters almost exclusively requiring a starting setup, following a Telereport Plus purchase, and which, once carried out, are not necessary to change again.

With the "Arrow Keys" LEFT and RIGHT the parameter value on display at the time can be changed.
If, on the other hand, the GSM option is not available or was disabled with the Advanced Menu, the following information is displayed.

```
Hk:OFF  Rings: 0
............ -I1
```

From this display, it is possible to view that the line was not hooked on "Hk:OFF" and that no calls are coming through "Rings: 0".
If there is an incoming call, you'll see the number besides Rings increasing at each ring, when the line is hooked on, the display shows "Hk:ON"; when the call is ended by the reporter, the message "CarrLost" appears. Let's finish with the last available display, which is pertinent to the line engagement; when it is displayed "C Det OK", it means the Telereport Plus is nforming you the there is a line signal.
Now, let's view the basic menus you can access, first, by pressing DOWN.
This menu is related to input 1 level, obviously it can be either of the Micro or the line type, in relation to the positon of the switch located on the rear panel

The first menu highlights that input 1 is "off".

```
In1Lev:Input Off        In1Lev:!!!!.....
............ -I1         ............ -I1
```

The second one graphically displays the level set with ⇐ and ⇒.

In the same manner, by pressing ⇓, you can access the menus related to the second inlet.

```
In2Lev:Input Off        In2Lev:!!!!.....
............ -I2         ............ -I2
```

If you press ⇓once again, you can access the menu pertinent to the adjustment of the level of the headsets output.

There are two outputs for the headset, their control is not separate, so they activate both at the same time. For this function only, it can be used both ⇐and ⇒ and the specific keys dedicated to this function **-** and **+**

```
Hd Lev:!!!!.....        Filt:....!......
............ -HD        ............ -FL
```

If you press ⇓once again, you can access the menu pertinent to the adjustment of the parametric filter.

With ⇐and ⇒ you can shift the frequency of the parametric filter between 820 and 2750 Hz in

32 steps, so as to optimize the receiving signal.

By pressing ⇓ once more, you can access the menu pertinent to the gain of the frequency selected by the parametric filter.

```
GainFL:!!!......
........... -FG
```

With ⇐and ⇒ you can change the gain/attenuation between -10 ÷ +10 dB.

The final menu you can access by pressing ⇓ is the one pertinent to the generation of the test list at 1 KHz for optimizing the calibration of the audio instruments connected to the 2 wire telephone line.

```
Send Tone:   OFF
........... -1K
```
```
Send Tone:   1KHz
........... -1K
```

As usual, the values OFF and 1 KHz can be set with ⇐ and ⇒.

How to make a call

To make a call, key in the requested number with the numeric keypad (upper panel nr.2), then, press the Hook key (front panel nr.1).
In case during keying in there is a digit error, the last number can be deleted with the key ⇐.
If the number you have to key in is of the type +390516634711, you have to replace the character + with 00, therefore, the number keyed in is 00390516634711.

How to store numbers
TELEREPORT Plus holds 10 locations to store the phone numbers most frequently used.
To store them, it is necessary to key in the number, then press the key #, on display
will appear a prompt requesting you the number of memory store to which it is to be
associated "Store mem 0-9", press a number between 0 and 9. During this operation, if
in the location selected was already stored another number, this is overwritten.
How to recall stored numbers
To recall a number, press # and the number of the required store memory location, the
number will appear on display, from here, therefore, you can call by pressing the Hook key.

Advanced menus

As previously stated, a series of personalized advanced menus are available, they can be accessed by pressing the two keys ⇑ and ⇓ at the same time. The different options available are described below.
This menu allows to carry out the selection of the type of phone interface used, if of the 2 wire telephone line (usual phone pair) or GSM type.

```
Advanced Setup
Intf.Type: 2Wire
```
```
Advanced Setup
Intf.Type:  GSM
```

With the following menus, it is possible to enable the ALC control for the inputs.

```
Advanced Setup
Inp 1 ALC: On
```
```
Advanced Setup
Inp 1 ALC: Off
```

```
Advanced Setup
Inp 2 ALC: On
```
```
Advanced Setup
Inp 2 ALC: Off
```

These menus allow to select the type of numeric combination. Nowadays, almost everywhere, the TONE (DTMF) mode is available.

```
Advanced Setup
2WDialM.: PULSE
```

In the event it is to be used the PULSE mode, further parameters are selectable, The standard for Italy is 1.5-10, for Portugal and Spain is 2-10, for other countries, please check on site the standard requested.

```
Advanced Setup
2WDialM.: TONE
```
```
Advanced Setup
2WPlMo: 1.5 - 10
```
```
Advanced Setup
2WPlMo:  2  - 10
```

Amongst the facilities are available an automatic answer mode "Auto-Answer" and an automatic redial mode "Auto-ReDial"

```
  Advanced Setup
AutoAnswer:  Off
```
```
  Advanced Setup
AutoAnswer:  1
```

```
  Advanced Setup
AutoAnswer:  3
```
```
  Advanced Setup
AutoAnswer:  5
```

The available options for Auto-Answer are: "Off" (disabled) in this case, to answer, it is necessary to press the specific key on Telereport Plus front keypad, "1" after 1 ring the line is automatically hooked, "3" after 3 rings the line is automatically hooked, "5" after 5 rings the line is automatically hooked.

```
  Advanced Setup
AutoReDial:  Off
```
```
  Advanced Setup
AutoReDial:  1
```
```
  Advanced Setup
AutoReDial:  255
```

The menu "Beep" allows to enable the buzzer for incoming calls only or for both incoming calls and pressing of keys located on the upper panel.

```
  Advanced Setup
Beep: Call In
```
```
  Advanced Setup
Beep:CallIn&Keys
```

This menu is a reading only menu, informing you whether the internal GSM option is or is not installed.

```
  Advanced Setup
GSM:NotInstalled
```
```
  Advanced Setup
GSM:  Installed
```

Lastly, the languages menu allows you to select amongst English, Italian, Spanish and Portuguese.

```
  Advanced Setup
Language:   ENG
```
```
  Advanced Setup
Linguaggio: ITA
```
```
  Advanced Setup
Idioma:     ESP
```

Technical Specification

MICROPHONE INPUT

Configuration	Tranformer Balanced Input (EMI Filtered)
Input impedance	200 Ω balanced
Input Level Range	-60 dBu ÷ - 50 dBu adjustable
Frequency Response	100 Hz ÷ 6 KHz
Noise	-63 dBu (din Audio)
Connector	6 mm Jack stereo female
ALC Control Range	between -60 ÷ -40 dBu
ALC Attack Time	10 mSec
ALC Release Time	2 Sec

LINE INPUT

Configuration	Electronic Balanced Input (EMI Filtered)
Input Impedance:	20 KΩ electronically balanced
Input Level Range	0 dBu ± 12 dB adjustable
Frequency Response	100 Hz ÷ 6 KHz
Noise	-66 dBu (din Audio)
Connector	6 mm Jack stereo female

HEADPHONE OUTPUT (EMI FILTERED)

Power	2x160 mW @ 50 _ level adjustable
Frequency Response	100 Hz ÷ 6 KHz
Connector	6 mm Jack stereo female

REC OUTPUT (EMI FILTERED)

Output Impedance	100 Ω unbalanced
Output Level	0 dBu fix
Frequency Response	100 Hz ÷ 6 KHz
Connector	6 mm Jack stereo female

HYBRIB CIRCUIT

Standard Specification ETS 300001 (NET4)	
Impedance	600 Ω (EMI Filtered)
RX Level	-10 dBu (adjustable gain -6 ÷ +18 dB)
TX Level	0 dBu
Hybrid null	-40 dBu full band
Frequency Response	230 Hz ÷ 3400 Hz
Distortion	0.8 %
Connector	RJ11 4 pins

INTERNAL GSM

Standard Freq.	900/1800 (1900 on request)
Frequency Response	200 Hz ÷ 3700 Hz
Antenna Connector	SMA Female

MOBILE CONNECTOR (FOR EXTERNAL GSM)

TX Level	-10 dBu
RX Level	-6 dBu
Connector	RJ11 6 pins

GENERAL DATA

Power Supply	3 battery (NI-MH) 1.2 V 2300 mAh
Power Consumption	300 mA - With GSM: Rx 500 mA - Tx 800 mA
Autonomy	7.5h standard operations Max 2.5 with GSM
External Supply	5 Vdc 500 mA
Dimension (WxHxD)	14 x 44 x 19 cm
Weight	0,8 Kg (With internal GSM option)
Operating Temp.	0 ÷ 50° C