

CA120

AMPLIFIER

Compact Amplifier



USER MANUAL

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1. IMPORTANT REMARK



WARNING: SHOCK HAZARD - DO NOT OPEN


AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING (If applicable): The terminals marked with symbol of “” may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.

WARNING: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

WARNING: An apparatus with Class I construction shall be connected to a mains socket-outlet with a protective earthing connection.

2. IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug the apparatus during lightening sorts or when unused for long periods of time.
13. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Disconnecting from mains: When switching off the POWER switch, all the functions and light indicators of the unit will be stopped, but fully disconnecting the device from mains is done by unplugging the power cable from the mains input socket. For this reason, it always shall remain easily accessible.
15. Equipment is connected to a socket-outlet with earthing connection by means of a power cord.
16. The marking information is located at the bottom of the unit.
17. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

NOTE: *This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.*



WARNING: This product must not be discarded, under any circumstance, as unsorted urban waste. Take to the nearest electrical and electronic waste treatment centre.

NEEC AUDIO BARCELONA, S.L. accepts no liability for any damage that may be caused to people, animal or objects due to failure to comply with the warnings above.

3. IMPORTANT NOTE

Thank you for choosing our Ecler **CA120 Compact Amplifier!**

It is **VERY IMPORTANT** to carefully read this manual and to fully understand its contents before any connection in order to maximize your use and get the best performance from this equipment.

To ensure optimal operation of this device, we strongly recommend that its maintenance be carried out by our authorised Technical Services.

Ecler **CA120** comes with a **3-year warranty**.

4. COMPLIANCE WITH INTERNATIONAL STANDARDS

The CA120 micro amplifier complies with the following international standards:

- EN55103-1 Electromagnetic Compatibility.
Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use
Part 1: Emission
- EN55103-2 Electromagnetic Compatibility.
Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use
Part 2: Immunity
- EN60065 Audio, video and similar electronic apparatus. Safety requirements
Complying with the requirements of directives 73/23/EC and 2004/108/EC

5. INTRODUCTION

The CA120 is a very small stereo amplifier with numerous remotely controlled functions (RS-232 serial port, infrared receiver, 0-10 VDC remote control port), and is ideal for integrating audiovisual applications with other devices: educational classes, meeting rooms and multimedia presentations, business premises, etc.

5.1 Main characteristics

- 2 x 60 W RMS @ 4Ω amplifier
- Universal external power supply
- AUTO STANDBY function: in the absence of an audio signal the unit automatically goes into *STANDBY* mode, minimising power consumption
- Lightweight, silent, high-performance amplifier (fan-free convection cooling)
- Suitable for stereo and parallel (mono)
- 1 switchable balanced mic / unbalanced line input, with high quality microphone preamplifier, *phantom* power supply, noise gate and “talkover” function or priority over the rest of input
- 2 stereo lines (not balanced)
- 2-band independent tone control (Bass, Treble) for the microphone / line 3 and line 1&2 input connection.
- Auxiliary output for liaison with other amplifiers or external audio devices
- Local control by digital rotary knob (“encoder”)
- Remote control by infrared remote control
- Remote control by WPmVOL or WPmVOL-SR (0-10 VDC) wall panel
- RS-232 control port, compatible with EclerCOMM software (free) and control protocol CA-NET
- MUTE port to silence the entire unit by closing external contact

6. INSTALLATION

WARNING: Non-compliance with the instructions or neglecting warnings may cause malfunction or even damage the unit:

1. Avoid turning on the device without the speakers connected to its outputs and without having previously set the volume/gain controls to minimum level.
2. Always use shielded cables to make connections between devices.
3. In an amplifier, avoid placing the speaker output cables close to other signal cables (micro, line...). This may cause the system to oscillate, damaging the amplifier and speakers.

6.1. Location and assembly

The CA120 is suitable for installation on a wall or under a surface (table, shelf, cupboard, etc.), thanks to its design and layout of its connectors, controls and LED indicator lights.

6.2. Mains connection

The amplifier is powered by alternating current through its external power source: 100-240 VAC and 50-60 Hz.

This apparatus must be earthed through its mains cable (earth resistance, $R_g = 30 \Omega$, or lower). The atmosphere should be as dry and dust free as possible. Do not expose the unit to rain or water splashes. Do not place liquid containers or incandescent objects like candles on top of the unit.



Should any work or connection / disconnection task be done, always disconnect the unit from the mains supply. There are no elements that can be manipulated by the user inside the amplifier.

To avoid buzzing, do not allow the power cable to intertwine with the shielded cables that transport the audio signal.

6.3. Audio input connections

The CA120 accepts two types of signals in its input channels:

- Microphone (**MIC**): has a balanced Euroblock or jack type connection, ready to accept a signal level between -20dBV y -50dBV, with adjustable sensitivity with the ADJ control

NOTE: the microphone input has a phantom power supply to power condenser microphones, activated by internal bridge ([see section 11 CONFIGURATION DIAGRAM](#)).

- Line signals (**LINE1, LINE2, LINE3**): they have unbalanced minijack or double RCA type stereo connections. They are prepared for input of between -6dBV and 0dBV, with input sensitivity that can be adjusted by internal port ([see section 11. CONFIGURATION DIAGRAM](#)). You can connect signals from CD players, radio tuners, mixing consoles, media players, the audio outputs of PCs and tablets, etc. to these connections.

NOTE: Turntables CANNOT BE CONNECTED directly to this device because none of the inputs have an RIAA preamp.

The CA120 has the following operating modes according to the input sources selected as active:

- **LINE1:** only LINE1 input is sent to the mix bus to be amplified and delivered to the L and R OUT outputs
- **LINE2:** only LINE2 is sent to the mix bus to be amplified and delivered to the L and R OUT outputs
- **LINE3/MIC:** only microphone (MIC) / line (LINE3) input is sent to the mix bus to be amplified and delivered to the OUT L and R outputs
- **LINE1 + LINE3/MIC:** the LINE1 and LINE3/MIC inputs are mixed, amplified and delivered to the L and R OUT outputs. If the TALKOVER function is active, the LINE3/MIC signal attenuates to that of the LINE1 when it exceeds the activation threshold
- **LINE2 + LINE3/MIC:** the LINE2 and LINE3/MIC inputs are mixed, amplified and delivered to the L and R OUT outputs. If the TALKOVER function is active, the LINE3/MIC signal attenuates to that of the LINE2 when it exceeds the activation threshold

Select one of the 5 work modes in special selection mode with the rotating knob on the front ([see section 7.2. Special active source selection mode and setting adjustments](#) for details of the full procedure).

6.4. Audio output connections

The amplified output (**OUT L** and **R**) have Euroblock connectors.

The connection cable that connects the CA120 connectors and the speakers should be good quality, with a suitable cross section and as short as possible.

The outputs can operate in stereo mode or mono (same signal L+R and both channels). These are selected using the micro switches **STEREO-MONO** on the rear panel ([see section 9 DIAGRAM and LIST OF FUNCTIONS](#) for more information).

Remember that the minimum work impedance for the amplifiers in mono or stereo mode is 4Ω . For correct operation of the CA120, under no circumstances must you work with impedance lower than specified above.

Additionally, the CA120 has an unamplified auxiliary output (**AUX OUT**) which makes it possible to connect it to amplifiers or with other external devices. The auxiliary output **AUX OUT** has a line level signal (0dBV) which is an unamplified replica of the signal delivered to the terminals **OUTPUT L y R**.

6.5. Remote control options

- **REMOTE** port: the RJ-45 **REMOTE** type connector allows the connection of a WpMVOL or WpMVOL-SR (control 0-10 VDC) wall control panel to adjust the general output volume and/or to select one of the five active work source modes (LINE1, LINE2, LINE3/MIC, LINE1 + LINE3/MIC, LINE2 + LINE3/MIC). The connection is made by a standard CAT5 cable between the WpMVOL or WpMVOL-SR wall panel and the REMOTE CA120 connector.

Because there is a CA120 WpM type control as well as other types of control (front knob, infrared control and serial port control) the most recent adjustments by any of these methods will prevail. For example, if an active source is selected and/or a volume adjustment is made using the WpMVOL-Sr wall panel connected to the **REMOTE** port, and then these settings are adjusted using the front control, the adjustment made with the frontal control will prevail. In this case, when the wall panel position is adjusted again, the CA120 will change to the values indicated, and so on and so forth.

- **MUTE** port: The **MUTE** connector makes it possible to connect a power free contact to totally silence the CA120 if an external device works on it (example: a emergencies and centralised evacuation warning system).

- **RS-232** port: the serial communication port **RS-232** allows remote management of the CA120 from a computer through the EclerCOMM software or CA-NET protocol from an external control system supporting this protocol. See the **CA-NET** protocol manual for detailed information on the connection and syntax of the commands supported. The connection has the following specifications:
 - Baud rate: 9600 (fixed, without auto negotiation)
 - Data bits: 8
 - Parity: None
 - Stop bits: 1
 - Flow control: None

WIRING RS-232 – DB9	
RS-232 CA120	DB9
Tx	Pin 2 (RxD)
Rx	Pin 3 (TxD)
Gnd	Pin 5 (Signal Gnd)

- Receiver **IR**: the built-in IR receiver gives general volume control of the CA120 and its **MUTE ON / OFF** function from the **REVO-IR** remote control included with the unit.

7. OPERATION AND USAGE

7.1. Start up and default mode

Start up the CA120 by connecting the equipment to an external power source to which the **DC 24V** connector of the CA120 has already been connected. The LED indicator **ON/STBY** immediately lights up on the front panel. We recommend you turn on all the devices in the following order: sound sources, mixer, equalisers, active filters and processors and, finally power amplifiers. Powering off should be done by following the exact reverse sequence. Following this order, the introduced noise due to turning on or switching off the devices will not affect those further on in the chain and will be inaudible.

The system defaults to volume adjustment mode. In this mode, the **VOL/MUTE** knob on the front panel acts on the general output volume of the CA120. This controller has a maximum of 64 steps between the unit's minimum and maximum volume. When turned, it will adjust the volume while the LED **LEVEL** light is flashing. When the controller is turned to the left or to the right, this flashes while the output volume increases or decreases. The light stops flashing when it reaches either end of the scale and it is no longer possible to increase or decrease the volume of the unit.

Quickly press the **VOL/MUTE** controller to activate/deactivate the mute function of the unit (MUTE ON/OFF). The **MUTE** LED lights when the mute function is activated.

If you adjust the volume using the infrared remote control, the LED **LEVEL** y **MUTE** visual indicators are exactly the same as those seen when adjusting these with the knobs on the front panel.

7.2. Special active source selection mode and setting adjustments

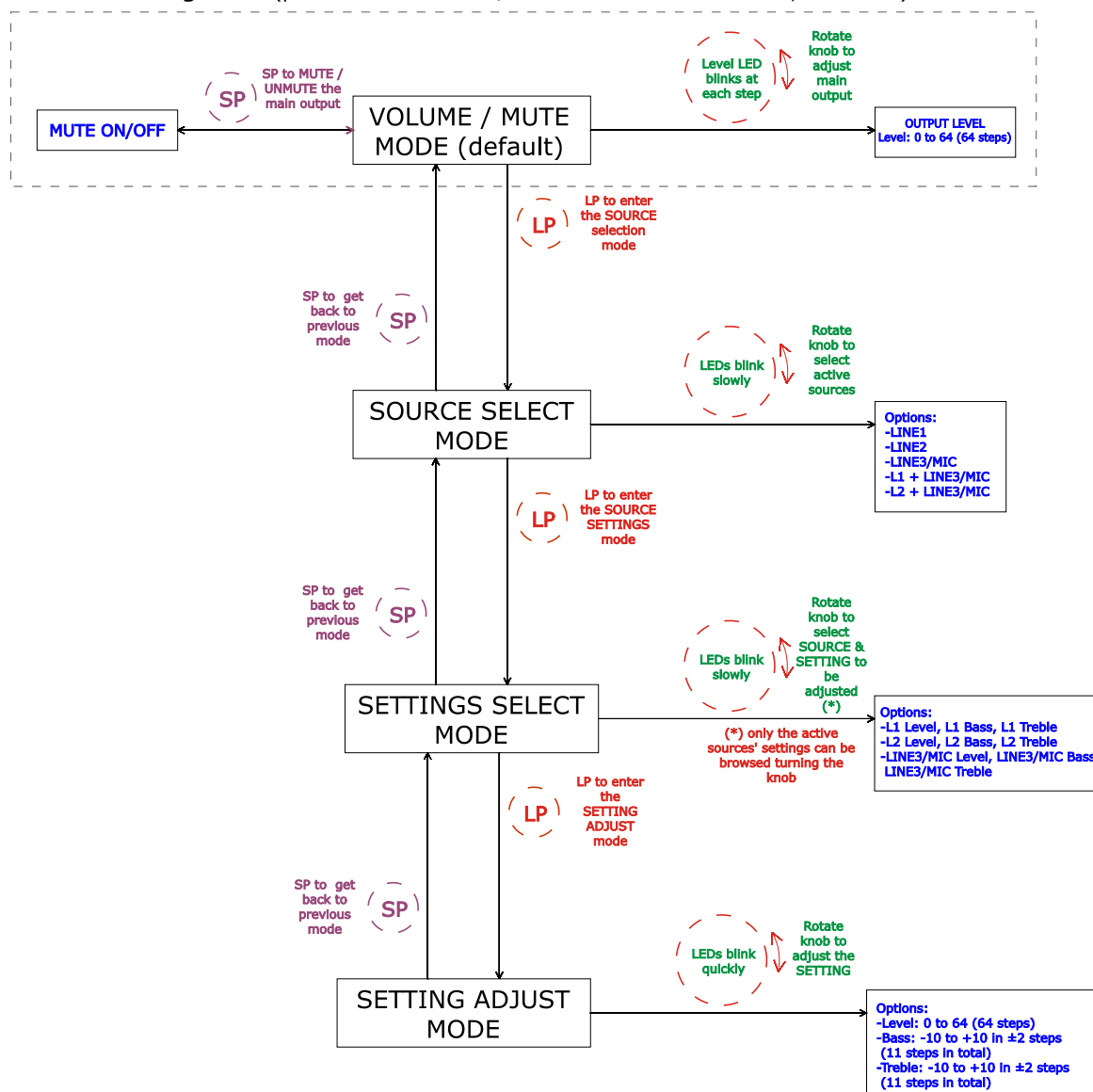
Use the knob on the front panel to access special modes for selecting active sources and adjusting levels and equalization (bass and treble). You can access these modes by holding in the knob for a certain time and then turning it. By adjusting the level of each source you can mix the signal from the microphone or line (LINE3/MIC) and another line (LINE1 or LINE2), and the result of this mix will be controlled by the general output volume of the unit together, in other words, respecting the relative levels set of each source.

The full procedure for accessing and operating in these special modes and the options available in each are set out in the following graph:

CA120 adjustments with front knob browser

SP: Short Press (press the VOL/MUTE knob briefly, less than 0,5 seconds)

LP: Long Press (press & hold the VOL/MUTE knob for more than 2,5 seconds)



Notes:

1. If the device is in special mode for 10 seconds and the front knob is not touched, the equipment automatically reverts to VOL/MUTE mode.
2. In tone control mode, when you turn the knob in either direction it flashes fast while the gain of the affected tone increases. When either end of the scale is reached (-10 ó +10dB) or when it goes through the centre point (0dB) it flashes more slowly.

7.3. AUTO STANDBY Function

The **AUTO STANDBY** function (idle or low consumption mode) means you can install the CA120 in inaccessible places and leave the device connected to the mains power supply permanently because when no signal is detected, it automatically goes into standby mode, saving energy.

To enable **AUTO STANDBY** use the micro switch with the same name on the rear panel of the unit ([see section 9. DIAGRAM and LIST OF FUNCTIONS](#)). When activated, if there is no audio signal in any of the inputs (or the signal is very weak, below the activation threshold), the CA120 automatically goes into STANDBY mode, and the **ON/STBY** on the front panel of the device goes orange. When a valid audio signal is detected in any of the inputs, the CA120 leaves standby mode and starts operating normally again and the **ON/STBY** LED goes green.

When you enable **AUTO STANDBY** mode with the micro switch (position **ON**) one of two things happens:

- There is NO audio signal in the inputs. Result: the amplifier immediately goes into AUTO STANDBY mode
- There is an audio signal in the inputs. Result: the amplifier stays active

When the amplifier goes into **AUTO STANDBY** mode, all the LED indicators go out with the exception of **ON/STBY**. If the amplifier is in STANDBY mode and you turn the **VOL/MUTE** knob to adjust the volume or activate the MUTE function, the LED lights will come on for a short time then go out again. Remember that the first acting on the VOL/MUTE knob, this will only reset the LED indicators, and will not change any of the settings.

When the unit is a special mode (source selection or setting adjustment) the LED indicators will not go out even if the amplifier is in **AUTO STANDBY** mode.

7.4. LED indicators

- **SP:** The signal presence or **SP** LED indicator shows that there is a signal in the amplifier input. This light up when the input level reaches the established detection threshold.
- **CLIP:** The saturation or **CLIP** LED indicator comes on when the signal delivered to the speakers is close to the amplifier's clipping or saturation level. Input signals should be set to ensure the **CLIP** (saturation or cut off) indicators never stay on, but that they do so at most to the beat of the lowest sound frequencies. Otherwise the amplified signal will be distorted with low quality and low intelligibility.

Note: If the input signal is too high, the CLIP indicator lighting up very frequently over a short time interval (a few seconds), the amplifier may go into protection mode, being muted to return to normal operation in a short time

- **MUTE:** This light up when the **MUTE** function is active (silent mode)
- **ON/STBY:** the green light comes on when the equipment is in normal operating mode and it goes orange when it is in standby or low consumption mode (STANDBY).
- **LEVEL:** This flashes when you adjust the general level of the device. It also lights up during special adjustment modes, input levels ([see section 7.2. Special active source selection mode and setting adjustments](#))
- **BASS:** This light up during special adjustment modes bass frequencies ([see section 7.2. Special active source selection mode and setting adjustments](#))
- **TREBLE:** This light up during special adjustment modes, treble frequencies ([see section 7.2. Special active source selection mode and setting adjustments](#))
- **LINE1, LINE2, LINE3/MIC:** These light up during special modes, selection of active sources and adjustments ([see section 7.2. Special active source selection mode and setting adjustments](#))

7.5. Micro switches on the rear panel

- **REMOTE:** Turn on (ON) the remote control from the WPmVOL or WPmVOL-SR wall panel connected to the REMOTE port.
- **NOISE GATE:** Turn on (ON) or turn off the noise gate function for the LINE3/MIC input. When this function is active the microphone input is muted whilst there is no signal above the function activation threshold, so the equipment rejects background noise captured by the microphone connected to it.
- **TALKOVER:** On or off according to the priority of the LINE3/MIC input over the line inputs (LINE1 or LINE2). When the TALKOVER function is on, the LINE3/MIC signal will attenuate the selected line (LINE 1 or 2) when the activation threshold set is reached.
- **AUTO STANDBY:** Switch the AUTO STANDBY function on (ON) or off. When the function is on, the CA120 will automatically go into STANDBY or low consumption mode in the absence of audio signals in its inputs.
- **STEREO / MONO (ST/MONO):** Select the work mode of the amplified outputs of the unit:
 - **ST:** Work in stereo mode L / R
 - **MONO:** Work in MONO mode, both channels amplifying the L+R signal.

7.6. Lock mode

To switch the CA120 lock mode on or off hold in the VOL/MUTE control for 10 seconds from the VOL/MUTE mode. The LED SETTING indicators will flash 3 times to indicate that lock mode is now on. When in lock mode the device cannot be managed using the VOL/MUTE control (it will flash three times to show that it is in that mode when you turn the knob). This will protect the equipment from unwanted handling until it is restored to normal operation after holding the VOL/MUTE control in for a further 10 seconds (the LED SETTING indicators will flash twice to show that the lock mode is off).

Note: once lock mode is activated it will stay activated even when the equipment is turned off and on again. It will stay in lock mode until the VOL/MUTE control is held in for 10 seconds again.

7.7. Restore default settings and update firmware

If you would like to restore the CA120 to factory settings, follow this procedure:

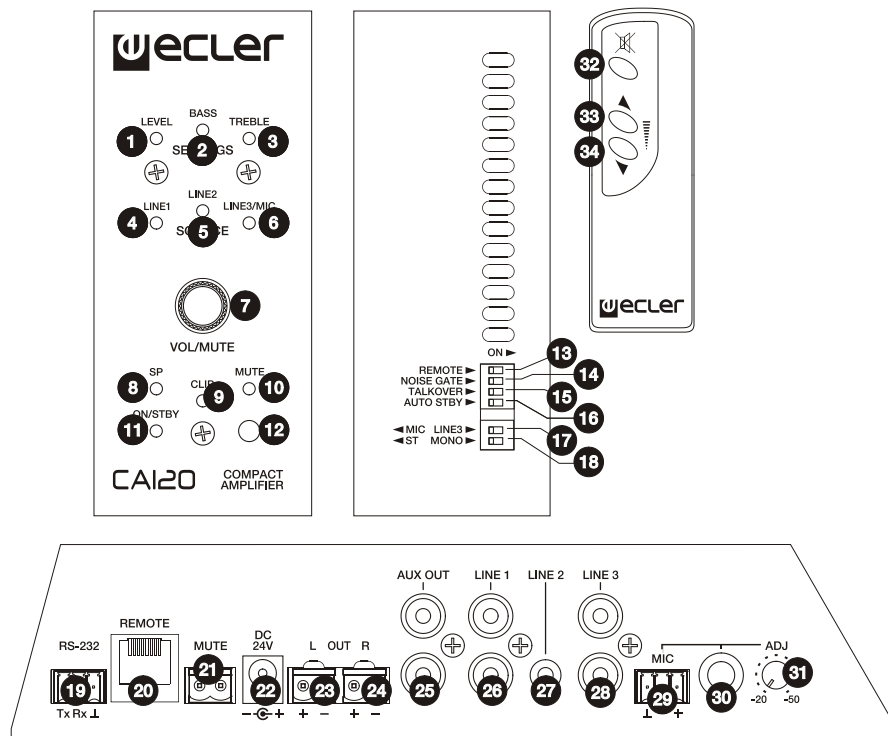
1. Unplug the equipment then press and hold the knob in.
2. Plug back the unit without releasing the knob. The MUTE LED indicator will flash.
3. Wait a few seconds and then switch the CA120 off again.
4. The next time you turn it on, the factory settings will be in the memory.

Note: for instructions on how to update the unit's firmware, see the product web page at www.ecler.com, where you will find the update software utility and instructions on how to proceed.

8. CLEANING

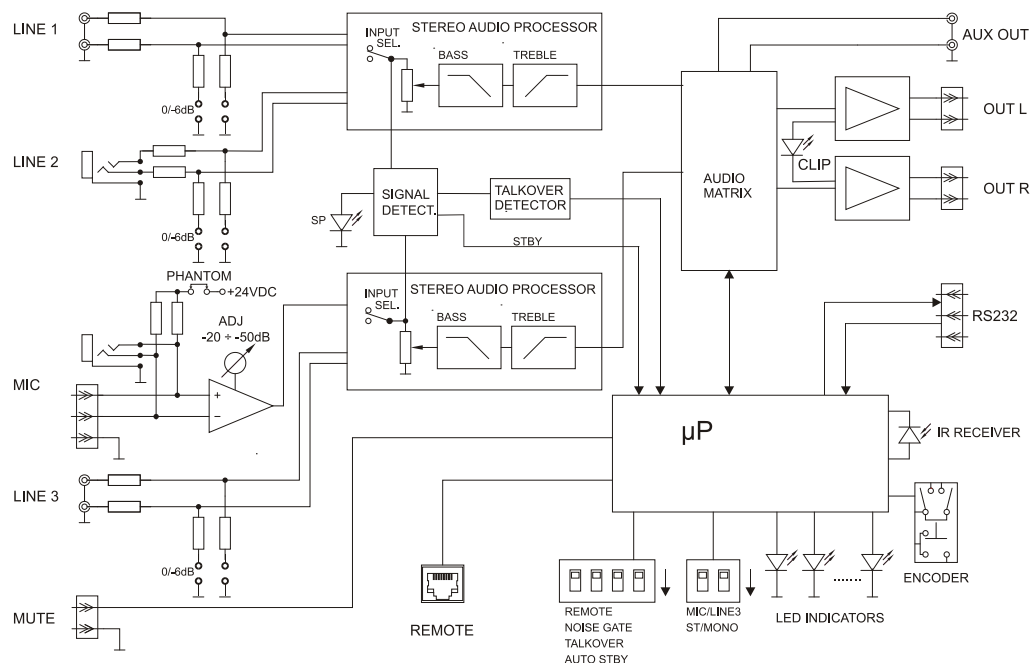
The CA120 must not be cleaned with solvents or abrasive substances which may damage the prints. Clean using a cloth moistened in water and a neutral liquid detergent, then dry with a clean cloth. Under no circumstances allow water to enter any of the orifices in the equipment.

9. DIAGRAM and LIST OF FUNCTIONS



- | | |
|--|--|
| 1 LEVEL indicator light | 18 STEREO/MONO micro switch |
| 2 BASS indicator light | 19 Remote control by protocol CA-NET, RS-232 |
| 3 TREBLE indicator light | 20 RJ-45, REMOTE connector |
| 4 LINE1 indicator light | 21 MUTE remote control |
| 5 LINE2 indicator light | 22 DC24V power connector |
| 6 MIC indicator light | 23 OUT L amplified output |
| 7 VOL/MUTE knob | 24 OUT R amplified output |
| 8 SP input signal presence indicator light | 25 AUX OUT |
| 9 CLIP indicator light | 26 RCA input line, LINE1 |
| 10 MUTE indicator light | 27 Mini jack input line, LINE2 |
| 11 ON/STBY on or standby indicator light | 28 RCA input line, LINE3 |
| 12 REMOTE, remote control receiver | 29 Microphone input, MIC |
| 13 REMOTE micro switch | 30 Microphone jack, MIC |
| 14 NOISE GATE micro switch | 31 MIC input sensitivity setting |
| 15 TALKOVER micro switch | 32 Mute key |
| 16 AUTO STANDBY micro switch | 33 Volume up key |
| 17 MIC/LIN3 micro switch | 34 Volume down key |

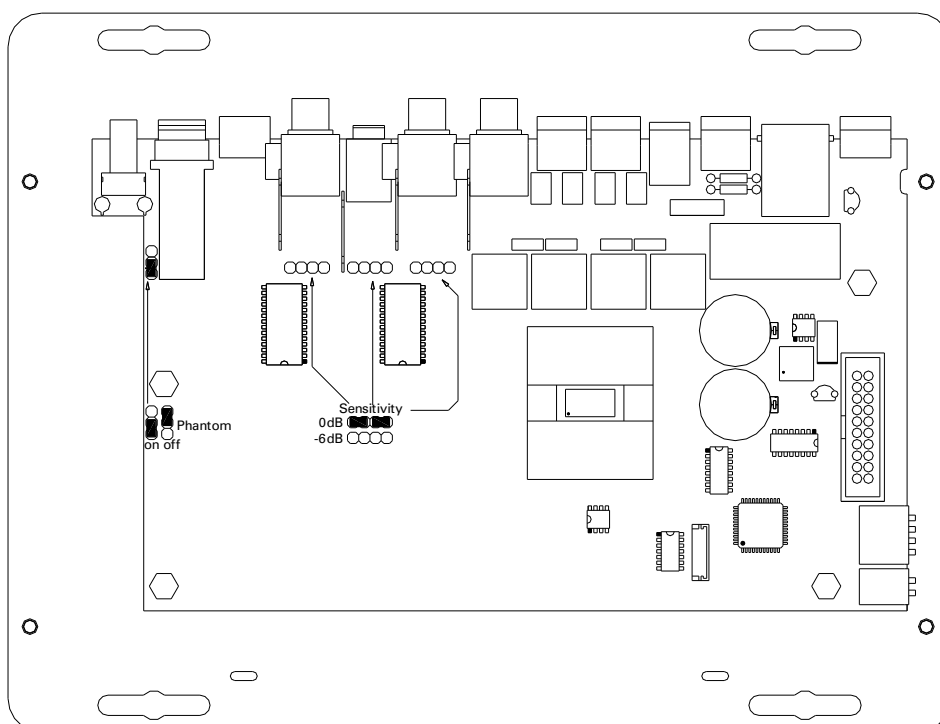
10. BLOCK DIAGRAM



11. CONFIGURATION DIAGRAM

JUMPERS FACTORY ADJUST

Phantom ON
Sensitivity -6dB



12. TECHNICAL CHARACTERISTICS

CA120

POWER (STEREO / MONO)	
	2x56W@4Ω 1% THD 2x68W@4Ω 10% THD 2x34W@8Ω 1% THD 2x41W@8Ω 10% THD
FREQUENCY RESPONSE	15Hz - 30kHz (-3dB)
THD+NOISE @ 1KHZ FULL POWER SPEAKER OUT	<0.15%
THD+NOISE AUX OUT	<0.02%
CHANNEL CROSSTALK @ 1KHZ	>65Db
INPUTS SENSITIVITY NOM/IMPEDANCE	
LINE1	-6dBV (0dBV*)/>8kΩ
LINE2	-6dBV (0dBV*)/>8kΩ
LINE3	-6dBV (0dBV*)/>8kΩ
MICRO (BAL)	-20 to -50dBV/>1kΩ
CMRR	
MICRO (BAL)	>65dB @ 1kHz
OUTPUTS LEVEL/MINIMUM LOAD	
AUX OUT	-2dBV/10kΩ
TONE CONTROL (LINE & MIC)	
BASS	100Hz ±10dB
TREBLE	6KHz ±10dB
SIGNAL NOISE RATIO	
LINE	>85dB
MIC (BAL)	>65Db
TALKOVER	
TIME	2 Sec**
DEPTH	-30dB**
MICROPHONE NOISE GATE	20-30 below max.**
PHANTOM VOLTAGE	+24VDC/10mA max.*
RS-232	
BAUD RATE	9600 (fixed)
DATA	8 bits
PARITY	NONE
STOP BITS	1
FLOW CTRL	NONE
ANALOG REMOTE (0-10V. BASED)	Volume & Input/preset** Selection
INFRARED REMOTE	Volume & Mute
MAINS (USING SUPPLIED DC ADAPTER)	100-240VAC 50/60Hz + External PSU 24VDC
POWER CONSUMPTION	
pink noise, 1/8 power @ 4ohm	33VA/24W
pink noise, 1/3 power @ 4ohm	58VA/52W
Stand By (time 2 minutes)	<2.5W
GENERAL	
Dimensions WxHxD	160x210x48mm
Weight	950g

*Internally selectable **Software selectable

13. CA-NET RS-232 Remote Control Protocol

Updated for CA40, CA120, CA120HZ, CA200z, DAM514 and DAM614

JANUARY 2016

The built-in RS-232 port in the rear panel of the CA and DAM series devices allows for an external device communication via a serial connection. This kind of connection uses a syntax which is very similar to the one used in the Ecler TP-NET protocol: it lets a client device get from and/or set the values of several parameters of a CA / DAM device (for instance, the CA40, CA120, CA120HZ or CA200z digital amplifiers or the DAM514 / DAM614 audio digital mixers), like volumes, mutes, equalisation tones, etc.

The RS-232 serial communication must fulfil the following specifications:

Baud rate:	9600 (fixed, no auto-negotiation)
Data bits:	8
Parity:	None
Stop bits:	1
Flow control:	None

It's not allowed to have more than one simultaneous access from several clients to the same CA / DAM device using the RS232 connection.

The protocol is simple and direct, syntax-friendly, making it easy to read, write and modify the generated code. It is based on messages with no begin delimiter: each message is self-delimited by the RS232 packet size, which is defined with a maximum of **80 ASCII characters**, and always including the character **LF (0x0A)** at the end of each message. All the messages must be written in **CAPITAL LETTERS**.

To let some control systems (like EXTRON®, CRESTRON®, AMX®, RTI®, VITY®, MEDIALON®, etc.) process the messages more easily, the CA / DAM device adds the character **LF (0x0A)** at the end of each message it sends. This way the client of the CA / DAM device can buffer the received messages to process them, when required. The CA / DAM device can also handle several messages received in a single RS232 packet by using the **LF** delimiter.

The available messages are built with one or more fields separated with blank spaces (= blank space):

<TYPE> [PARAM1] [PARAM2] [PARAM3] [PARAM4][LF]

The first field (**TYPE**) defines the **message type** and then, the required parameters for it (each kind of message requires a given number of parameters). The field **TYPE** can have these values:

- **GET**

- SET
- DATA
- ERROR

At the end of this document you'll find a table including all the available messages and their parameters for each model of CA-NET compatible device.

The **GET & SET** messages can be sent from the client (control system) to the CA / DAM device. The **DATA & ERROR** messages can just be sent from the CA / DAM device to the client.

The **SET** messages coming from a client device don't have an automatic acknowledgement with a **DATA** message sent from the CA / DAM device after it has processed the **SET** command. The client must update the values itself, sending the needed **GET** message to ask for a parameter's value when it requires confirmation from the device. On the other hand, when a local control in the CA / DAM unit occurs (for instance, using the front panel controls or an infrared remote control), the CA / DAM device will automatically send the associated **DATA** command via its RS-232 interface, to keep synchronisation with the client device.

CA40, CA120 (including CA120HZ) and CA200z NOTES:

- A couple of special parameters for the **GET** and **SET** commands would require a detailed explanation:
 1. **AUTOLOAD_PRESET1**: its value (ON/OFF) defines whether preset number 1 must be recalled or not each time the CA device is powered ON, defining this way the default working mode at startup
 2. **PANEL_LOCKED**: its value (ON/OFF) defines whether the front panel controls (the rotary encoder in the case of the CA40/CA120, and the encoder and the function keys in the case of the CA200z) is enabled (PANEL_LOCKED=OFF) or disabled (PANEL_LOCKED=ON) for local management of the device. (see the CA40/120 or CA200z user manual for further details)
- The numerical values are always integer numbers without **comma** or **dot** symbols
- **<Input Name>** are text strings (without blank spaces) that identify an audio input of a CA device:
 - For the CA40, there are 5 possible Input Names:
 - LINE1
 - LINE2
 - MICRO
 - LINE1_AND_MICRO
 - LINE2_AND_MICRO

- For the CA120, there are 5 possible Input Names:
 - LINE1
 - LINE2
 - MICL3
 - LINE1_AND_MICL3
 - LINE2_AND_MICL3
- And 6 in the case of the CA200z:
 - LINE1
 - LINE2
 - LINE2
 - LINE4
 - MICRO1
 - MICRO2
- **<Preset Number>** is a numerical value that identifies one available Preset stored in the device's memory. It can be within the [1..5] range.
- **<Volume Level>** are numerical values in the [0...64] range that define values in a scale equivalent to [-inf...Maximum_Volume] in 1.25 dB steps.
- **<Tone Level>** are numerical values in the [-10...10] range that define values in a scale equivalent to [-10, -8, -6, -4, -2, 0, 2, 4, 6, 8, 10] dB. If the numerical value is not in this list, the unit will reply with an error message.
- **<Increment Value>** are numerical values in the [0...64] range that define a value in a scale equivalent to [Increment Value]x(1.25) dB, used to increase or decrease the current absolute value of a level.
- **<Threshold Level>** the allowed numerical values in this field are just 3 [20, 25, 30]. It defines a value in a scale equivalent to [20, 25, 30] dB below the nominal level value for a given audio input. If the numerical value is not in this list, the unit will reply with an error message.
- **<Depth Level>** the allowed numerical values in this field are just 4 [20, 30, 60, 80]. It defines a value in a scale equivalent to [20, 30, 60, 80] dB. If the numerical value is not in this list, the unit will reply with an error message.
- **<Attack Time Value>** the allowed numerical values in this field are just 4 [50, 100, 200, 300]. It defines a value in a scale equivalent to [50, 100, 200, 300] milliseconds. If the numerical value is not in this list, the unit will reply with an error message.
- **<Release Time Value>** the allowed numerical values in this field are just 5 [300, 500, 1000, 2000, 3000]. It defines a value in a scale equivalent to [300, 500, 1000, 2000, 3000] milliseconds. If the numerical value is not in this list, the unit will reply with an error message.
- **<Remote Select Value>** are text strings (without blank spaces) that identify the function of the analogue (0 – 10 VDC) remote control selector connected to a physical "REMOTE" port in the device.

- In the case of the CA40/CA120, there are just two possible string values for this parameter:
 - INPUTS
 - PRESETS
-
- And three in the case of the CA200z:
 - OFF
 - INPUTS
 - PRESETS
- *In the CA40/CA120, a single REMOTE port admits the connection of a **WPmVOL-SR** unit, which has a volume control knob and a 5-position rotary switch, or selector. The selector can be used in any of these two modes:*
 - *INPUTS: to select the active audio source(s) (LINE1, LINE2, MICRO (MICL3 for the CA120), LINE1_AND_MICRO (LINE1_AND_MICL3 for the CA120) or LINE2_AND_MICRO (LINE2_AND_MICL3 for the CA120))*
 - *PRESETS: to recall any of the 5 presets in the memory of the unit, which store the full configuration of the unit, including volumes, EQ, etc.*
- *The factory default working mode of the selector is **INPUTS**, and it can just be modified to **PRESETS** by means of an RS-232 connection.*
-
- *In the CA200z there are two independent REMOTE ports, each one able to control one of the device's outputs when the CA200z has been configured in the ZONES A/B mode. Each selector can be used in any of these 3 modes:*
 - *INPUTS: to select the active audio LINE source (OFF, LINE1, LINE2, LINE3 or LINE4)*
 - *PRESETS: to recall any of the 5 presets in the memory of the unit, which store the full configuration of the unit, including volumes, EQ, etc. Just one out of these two remote ports can be configured to recall presets, not both at the same time*
 - *OFF: REMOTE port disabled.*
- **<Zone>** are text strings (without blank spaces) that identify a zone where the command will operate. In the CA200z there are just two possible values for this parameter:
 - ZA (output labeled as ZA or L)
 - ZB (output labeled as ZB or R)
- When the <Zone> parameter is not specified, the CA200z will understand the command will operate over ZA.
- **<Micro Name>** are text strings (without blank spaces) that identify the MIC inputs in the unit. In the CA200z there are just two possible values for this parameter:
 - MICRO1
 - MICRO2

- **<Output Mode>** are text strings (without blank spaces) that identify the amplifier's output working mode. In the CA200z there are just four possible values for this parameter:
 - STEREO
 - MONO
 - BRIDGE
 - ZONES
- In the CA40 there are just three possible values for this parameter:
 - STEREO
 - MONO
 - BRIDGE
- In the CA120 there are just two possible values for this parameter:
 - STEREO
 - MONO
-
- **<Zone Label>** is a text string that contains the customized name for a zone that the CA200z will show in its LCD display. The maximum length for this string is 17 characters, being ignored those exceeding this limit. Blank characters are not allowed. A valid example: [MAIN_HALL](#)
- **<Display Mode>** are text strings (without blank spaces) that identify the LCD display working mode. In the CA200z there are just three possible values for this parameter:
 - ON
 - DIMMED
 - OFF
- **<Contrast Level>** are numerical values in the [0...100] range that define the LCD display contrast level.
- **<Assign Value>** are text strings (without blank spaces) that identify the Talkover / Pager function assignment for a MIC input towards the device's outputs. In the CA200z there are just five possible values for this parameter:
 - OFF
 - ZA
 - ZB
 - ZA-B
 - PAGER
- **<Priority>** is a numerical value that defines the Talkover function priority of one MIC input in front of the other inputs in the unit. In the case of the CA200z just two values are valid [1, 2], being "1" the highest priority level and "2" the lower one.
- **<Error ID>** is a numerical value for an error code.
- **"<Error Description>"** is a text chain inside double quotation marks, containing an error description.

DAM514 / DAM614 NOTES:

- **<RemoteMode>** parameter

Originally designed to connect WPmVOL-SR (or WPTOUCH) wall panels to the REMOTE ports in the DAM514 / DAM614: panels that include a volume control knob and a 5-position selector knob. The possible working modes (**REMOTE_MODE** command) of any of the 4 available remote ports (R1 to R4) in the unit are:

- DISABLED
 - IN_VOL: volume control for one or several inputs (general input volume, affecting all the post processing)
 - ZONE_VOL: volume control for one or several zone outputs
 - IN_SEL: one input (source) selection for one or several output zones (with the 5 position selector)
 - IN_SEL_IN_LEVEL: one input (source) selection for one or several output zones (with the 5 position selector) + the control of the selected input's crosspoints level to the destination zones
 - IN_SEL_ZONE_VOL: one input (source) selection for one or several output zones (with the 5 position selector) + the control of the affected zones output volume
 - PRESET: a preset recovery, from P1 to P5 (with the 5 position selector)
 - PRESET_ZONE_VOL: a preset recovery, from P1 to P5 (with the 5 position selector) + volume control for one or several zone outputs
 - **MATRIX_VOL:**
- **PAGER / DUCKER** parameter for **TALKOVER_MODE** command:
 - INPUT 6 can be used with the Talkover feature in PAGER or DUCKER mode. PAGER mode requires an external paging station (MPAGE4) to select the destination zones and performing the paging (for **DAM614**)
 - INPUTs 3, 4 and 5 can be used with the Talkover feature just in DUCKER mode (for **DAM614**)
 - INPUT 5 can be used with the Talkover feature in PAGER or DUCKER mode. PAGER mode requires an external paging station (MPAGE4) to select the destination zones and performing the paging (for **DAM514**)
 - INPUT 4 can be used with the Talkover feature just in DUCKER mode (for **DAM514**)

CA40 AMPLIFIER

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
GET	ALL				Dumps current device status (with DATA messages)
	PRESET_NUMBER				Gets the current PRESET number
	OUTPUT_MODE				Gets the current amplifier OUTPUT MODE
	INPUT				Gets the current active INPUTs
	MUTE				Gets the current MUTE status
	MASTER_VOL				Gets the current MASTER VOLUME
	LINE1_VOL				Gets the current LINE1 VOLUME
	LINE2_VOL				Gets the current LINE2 VOLUME
	MICRO_VOL				Gets the current MICRO VOLUME
	LINE1_BASS				Gets the current LINE1 BASS LEVEL
	LINE2_BASS				Gets the current LINE2 BASS LEVEL
	MICRO_BASS				Gets the current MICRO BASS LEVEL
	LINE1_TREBLE				Gets the current LINE1 TREBLE LEVEL
	LINE2_TREBLE				Gets the current LINE2 TREBLE LEVEL
	MICRO_TREBLE				Gets the current MICRO TREBLE LEVEL
	GATE				Gets the current NOISE GATE ON/OFF status
	GATE_THRESHOLD				Gets the current NOISE GATE THRESHOLD LEVEL
	TALKOVER				Gets the current TALKOVER ON/OFF status
	TALKOVER_THRESHOLD				Gets the current TALKOVER THRESHOLD LEVEL
	TALKOVER_ATTACK				Gets the current TALKOVER ATTACK TIME
	TALKOVER_RELEASE				Gets the current TALKOVER RELEASE TIME
	TALKOVER_DEPTH				Gets the current TALKOVER DEPTH (attenuation)
	REMOTE				Gets the current REMOTE ON/OFF status
	REMOTE_SELECTOR				Gets de current REMOTE SELECTOR function
	AUTO_STANDBY				Gets the current AUTO STANDBY ON/OFF status
	AUTOLOAD_PRESET1				Gets the current AUTOLOAD_PRESET1 at Startup function
	PANEL_LOCKED				Get the current PANEL_ LOCKED (front knob) status

	INFO_MODEL				Gets the Device model name
	INFO_VERSION				Gets the current Firmware Version
SET	LOAD_PRESET	<Preset Number>			Recalls and activates a PRESET
	SAVE_PRESET	<Preset Number>			Saves the current PRESET
	INPUT	<Input Name>			Sets the current active INPUT(s)
	MUTE	ON/OFF			Sets the current MUTE status
	MASTER_VOL	<Volume Level>			Sets the current MASTER VOLUME
	LINE1_VOL	<Volume Level>			Sets the current LINE1 VOLUME
	LINE2_VOL	<Volume Level>			Sets the current LINE2 VOLUME
	MICRO_VOL	<Volume Level>			Sets the current MICRO VOLUME
	LINE1_BASS	<Tone Level>			Sets the current LINE1 BASS LEVEL
	LINE2_BASS	<Tone Level>			Sets the current LINE2 BASS LEVEL
	MICRO_BASS	<Tone Level>			Sets the current MICRO BASS LEVEL
	LINE1_TREBLE	<Tone Level>			Sets the current LINE1 TREBLE LEVEL
	LINE2_TREBLE	<Tone Level>			Sets the current LINE2 TREBLE LEVEL
	MICRO_TREBLE	<Tone Level>			Sets the current MICRO TREBLE LEVEL
	GATE_THRESHOLD	<Threshold Level>			Sets the current NOISE GATE THRESHOLD LEVEL
	TALKOVER_THRESHOLD	<Threshold Level>			Sets the current TALKOVER THRESHOLD LEVEL
	TALKOVER_ATTACK	<Attack Time Value>			Sets the current TALKOVER ATTACK TIME
	TALKOVER_RELEASE	<Release Time Value>			Sets the current TALKOVER RELEASE TIME
	TALKOVER_DEPTH	<Depth Level>			Sets the current TALKOVER DEPTH (attenuation)
	MASTER_VOL_INC	<Increment Value>			Increments the current MASTER VOLUME
	MASTER_VOL_DEC	<Increment Value>			Decrements the current MASTER VOLUME
	REMOTE_SELECTOR	<Remote Selector Value>			Sets de current REMOTE SELECTOR function
	AUTOLOAD_PRESET1	ON/OFF			Sets the current AUTOLOAD_PRESET1 at Startup function
	PANEL_LOCKED	ON/OFF			Sets the current PANEL_ LOCKED (front knob) status
DATA	PRESET_NUMBER	<Preset Number>			Shows the current PRESET
	PRESET_DONE				Shows that the last SET LOAD_PRESET n command has been processed: the preset is loaded and active

OUTPUT_MODE	<OutputMode>			Shows the current amplifier OUTPUT MODE (MONO/STEREO/BRIDGE)
INPUT	<Input Name>			Shows the current active INPUT(s)
MUTE	ON/OFF			Shows the current MUTE status
MASTER_VOL	<Volume Level>			Shows the current MASTER VOLUME
LINE1_VOL	<Volume Level>			Shows the current LINE1 VOLUME
LINE2_VOL	<Volume Level>			Shows the current LINE2 VOLUME
MICRO_VOL	<Volume Level>			Shows the current MICRO VOLUME
LINE1_BASS	<Tone Level>			Shows the current LINE1 BASS LEVEL
LINE2_BASS	<Tone Level>			Shows the current LINE2 BASS LEVEL
MICRO_BASS	<Tone Level>			Shows the current MICRO BASS LEVEL
LINE1_TREBLE	<Tone Level>			Shows the current LINE1 TREBLE LEVEL
LINE2_TREBLE	<Tone Level>			Shows the current LINE2 TREBLE LEVEL
MICRO_TREBLE	<Tone Level>			Shows the current MICRO TREBLE LEVEL
GATE	ON/OFF			Shows the current NOISE GATE ON/OFF status
GATE_THRESHOLD	<Threshold Level>			Shows the current NOISE GATE THRESHOLD LEVEL
TALKOVER	ON/OFF			Shows the current TALKOVER ON/OFF status
TALKOVER_THRESHOLD	<Threshold Level>			Shows the current TALKOVER THRESHOLD LEVEL
TALKOVER_ATTACK	<Attack Time Value>			Shows the current TALKOVER ATTACK TIME
TALKOVER_RELEASE	<Release Time Value>			Shows the current TALKOVER RELEASE TIME
TALKOVER_DEPTH	<Depth Level>			Shows the current TALKOVER DEPTH (attenuation)
REMOTE	ON/OFF			Shows the current REMOTE ON/OFF status
REMOTE_SELECTOR	<Remote Selector Value>			Shows de current REMOTE SELECTOR function
AUTO_STANDBY	ON/OFF			Shows the current STANSBY ON/OFF status
AUTOLOAD_PRESET1	ON/OFF			Shows the current AUTOLOAD_PRESET1 at Startup function
PANEL_LOCKED	ON/OFF			Shows the current PANEL_ LOCKED (front knob) status
INFO_MODEL	<Device Model>			Shows the Device Model
INFO_VERSION	<Firmware Version>			Shows the current Firmware Version
ERROR	<Error ID>	"<Error Description>"		Informs about an error

CA120 / CA120HZ AMPLIFIER

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
GET	ALL				Dumps current device status (with DATA messages)
	PRESET_NUMBER				Gets the current PRESET number
	OUTPUT_MODE				Gets the current amplifier OUTPUT MODE
	INPUT				Gets the current active INPUTs
	LIN3_SELECTOR				Gets the current LIN3 SELECTOR status
	MUTE				Gets the current MUTE status
	MASTER_VOL				Gets the current MASTER VOLUME
	LINE1_VOL				Gets the current LINE1 VOLUME
	LINE2_VOL				Gets the current LINE2 VOLUME
	MICL3_VOL				Gets the current MICL3VOLUME
	LINE1_BASS				Gets the current LINE1 BASS LEVEL
	LINE2_BASS				Gets the current LINE2 BASS LEVEL
	MICL3_BASS				Gets the current MICL3 BASS LEVEL
	LINE1_TREBLE				Gets the current LINE1 TREBLE LEVEL
	LINE2_TREBLE				Gets the current LINE2 TREBLE LEVEL
	MICL3_TREBLE				Gets the current MICL3 TREBLE LEVEL
	GATE				Gets the current NOISE GATE ON/OFF status
	GATE_THRESHOLD				Gets the current NOISE GATE THRESHOLD LEVEL
	TALKOVER				Gets the current TALKOVER ON/OFF status
	TALKOVER_THRESHOLD				Gets the current TALKOVER THRESHOLD LEVEL
	TALKOVER_ATTACK				Gets the current TALKOVER ATTACK TIME
	TALKOVER_RELEASE				Gets the current TALKOVER RELEASE TIME
	TALKOVER_DEPTH				Gets the current TALKOVER DEPTH (attenuation)
	REMOTE				Gets the current REMOTE ON/OFF status
	REMOTE_SELECTOR				Gets de current REMOTE SELECTOR function
	AUTO_STANDBY				Gets the current AUTO STANDBY ON/OFF status
	AUTOLOAD_PRESET1				Gets the current AUTOLOAD_PRESET1 at Startup function

	PANEL_LOCKED				Get the current PANEL_ LOCKED (front knob) status
	INFO_MODEL				Gets the Device model name
	INFO_VERSION				Gets the current Firmware Version
SET	LOAD_PRESET	<Preset Number>			Recalls and activates a PRESET
	SAVE_PRESET	<Preset Number>			Saves the current PRESET
	INPUT	<Input Name>			Sets the current active INPUT(s)
	MUTE	ON/OFF			Sets the current MUTE status
	MASTER_VOL	<Volume Level>			Sets the current MASTER VOLUME
	LINE1_VOL	<Volume Level>			Sets the current LINE1 VOLUME
	LINE2_VOL	<Volume Level>			Sets the current LINE2 VOLUME
	MICL3_VOL	<Volume Level>			Sets the current MICL3 VOLUME
	LINE1_BASS	<Tone Level>			Sets the current LINE1 BASS LEVEL
	LINE2_BASS	<Tone Level>			Sets the current LINE2 BASS LEVEL
	MICL3_BASS	<Tone Level>			Sets the current MICL3 BASS LEVEL
	LINE1_TREBLE	<Tone Level>			Sets the current LINE1 TREBLE LEVEL
	LINE2_TREBLE	<Tone Level>			Sets the current LINE2 TREBLE LEVEL
	MICL3_TREBLE	<Tone Level>			Sets the current MICL3 TREBLE LEVEL
	GATE_THRESHOLD	<Threshold Level>			Sets the current NOISE GATE THRESHOLD LEVEL
	TALKOVER_THRESHOLD	<Threshold Level>			Sets the current TALKOVER THRESHOLD LEVEL
	TALKOVER_ATTACK	<Attack Time Value>			Sets the current TALKOVER ATTACK TIME
	TALKOVER_RELEASE	<Release Time Value>			Sets the current TALKOVER RELEASE TIME
	TALKOVER_DEPTH	<Depth Level>			Sets the current TALKOVER DEPTH (attenuation)
	MASTER_VOL_INC	<Increment Value>			Increments the current MASTER VOLUME
	MASTER_VOL_DEC	<Increment Value>			Decrements the current MASTER VOLUME
	REMOTE_SELECTOR	<Remote Selector Value>			Sets de current REMOTE SELECTOR function
	AUTOLOAD_PRESET1	ON/OFF			Sets the current AUTOLOAD_PRESET1 at Startup function
	PANEL_LOCKED	ON/OFF			Sets the current PANEL_ LOCKED (front knob) status
DATA	PRESET_NUMBER	<Preset Number>			Shows the current PRESET
	PRESET_DONE				Shows that the last SET LOAD_PRESET n command has been processed: the preset is loaded and active

OUTPUT_MODE	<OutputMode>			Shows the current amplifier OUTPUT MODE (MONO/STEREO/BRIDGE)
INPUT	<Input Name>			Shows the current active INPUT(s)
LIN3_SELECTOR				Shows the current LIN3 SELECTOR status
MUTE	ON/OFF			Shows the current MUTE status
MASTER_VOL	<Volume Level>			Shows the current MASTER VOLUME
LINE1_VOL	<Volume Level>			Shows the current LINE1 VOLUME
LINE2_VOL	<Volume Level>			Shows the current LINE2 VOLUME
MICL3_VOL	<Volume Level>			Shows the current MICL3 VOLUME
LINE1_BASS	<Tone Level>			Shows the current LINE1 BASS LEVEL
LINE2_BASS	<Tone Level>			Shows the current LINE2 BASS LEVEL
MICL3_BASS	<Tone Level>			Shows the current MICL3 BASS LEVEL
LINE1_TREBLE	<Tone Level>			Shows the current LINE1 TREBLE LEVEL
LINE2_TREBLE	<Tone Level>			Shows the current LINE2 TREBLE LEVEL
MICL3_TREBLE	<Tone Level>			Shows the current MICL3 TREBLE LEVEL
GATE	ON/OFF			Shows the current NOISE GATE ON/OFF status
GATE_THRESHOLD	<Threshold Level>			Shows the current NOISE GATE THRESHOLD LEVEL
TALKOVER	ON/OFF			Shows the current TALKOVER ON/OFF status
TALKOVER_THRESHOLD	<Threshold Level>			Shows the current TALKOVER THRESHOLD LEVEL
TALKOVER_ATTACK	<Attack Time Value>			Shows the current TALKOVER ATTACK TIME
TALKOVER_RELEASE	<Release Time Value>			Shows the current TALKOVER RELEASE TIME
TALKOVER_DEPTH	<Depth Level>			Shows the current TALKOVER DEPTH (attenuation)
REMOTE	ON/OFF			Shows the current REMOTE ON/OFF status
REMOTE_SELECTOR	<Remote Selector Value>			Shows de current REMOTE SELECTOR function
AUTO_STANDBY	ON/OFF			Shows the current STANSBY ON/OFF status
AUTOLOAD_PRESET1	ON/OFF			Shows the current AUTOLOAD_PRESET1 at Startup function
PANEL_LOCKED	ON/OFF			Shows the current PANEL_ LOCKED (front knob) status
INFO_MODEL	<Device Model>			Shows the Device Model
INFO_VERSION	<Firmware Version>			Shows the current Firmware Version
ERROR	<Error ID>	"<Error Description>"		Informs about an error

CA200z AMPLIFIER

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
GET	ALL				Dumps current device status (with DATA messages)
	POWER				Gets the current POWER status
	PRESET_NUMBER				Gets the current PRESET number
	OUTPUT_MODE				Gets the current amplifier OUTPUT MODE
	ZONE_LABEL	<Zone Label>	<Zone>		Gets the current LABEL (name) for the specified ZONE
	MUTE	<Zone>			Gets the current MUTE status for the specified ZONE
	MASTER_VOL	<Zone>			Gets the current MASTER VOLUME for the specified ZONE
	INPUT	<Input Name>	<Zone>		Gets the status (ON/OFF) for the specified INPUT at the specified ZONE
	VOL	<Input Name>	<Zone>		Gets the current VOLUME for the specified INPUT at the specified ZONE
	BASS	<Input Name>	<Zone>		Gets the current BASS LEVEL for the specified INPUT at the specified ZONE
	TREBLE	<Input Name>	<Zone>		Gets the current TREBLE LEVEL for the specified INPUT at the specified ZONE
	GATE	<Micro Name>			Gets the current NOISE GATE status (ON or OFF) for the specified MIC INPUT
	GATE_THRESHOLD	<Micro Name>			Gets the current NOISE GATE THRESHOLD LEVEL for the specified MIC INPUT
	TALKOVER_ASSIGN	<Micro Name>			Gets the current TALKOVER ASSIGN for the specified MIC INPUT
	TALKOVER_PRIORITY	<Micro Name>			Gets the current TALKOVER PRIORITY for the specified MIC INPUT
	TALKOVER_THRESHOLD	<Micro Name>			Gets the current TALKOVER THRESHOLD LEVEL for the specified MIC INPUT
	TALKOVER_ATTACK	<Micro Name>			Gets the current TALKOVER ATTACK TIME for the specified MIC INPUT

TALKOVER_RELEASE		<Micro Name>			Gets the current TALKOVER RELEASE TIME for the specified MIC INPUT
TALKOVER_DEPTH		<Micro Name>			Gets the current TALKOVER DEPTH (attenuation) for the specified MIC INPUT
REMOTE_SELECTOR		<Zone>			Gets de current REMOTE SELECTOR function for the specified ZONE
IR_REMOTE					Gets the current IR REMOTE status (ON or OFF)
DISPLAY_MODE					Gets the current DISPLAY MODE
LCD_CONTRAST					Gets the current DISPLAY CONTRAST level
AUTO_STANDBY					Gets the current AUTO STANDBY function status (ON or OFF)
AUTOLOAD_PRESET1					Gets the current AUTOLOAD_PRESET1 at Startup function
PANEL_LOCKED					Gets the current PANEL_LOCKED (front panel controls) status
INFO_MODEL					Gets the Device model name
INFO_VERSION					Gets the current Firmware Version

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
SET	POWER	ON / STANDBY			Sets the current amplifier POWER status
	LOAD_PRESET	<Preset Number>			Recalls and activates a PRESET
	SAVE_PRESET	<Preset Number>			Saves the current PRESET
	OUTPUT_MODE	<OutputMode>			Sets the current amplifier OUTPUT MODE
	ZONE_LABEL	<Zone Label>	<Zone>		Sets the current LABEL (name) for the specified ZONE
	MUTE	ON/OFF	<Zone>		Sets the current MUTE status for the specified ZONE
	MASTER_VOL	<Volume Level>	<Zone>		Sets the current MASTER VOLUME for the specified ZONE
	INPUT	<Input Name>	ON/OFF	<Zone>	Sets the status (ON/OFF) for the specified INPUT at the specified ZONE
	VOL	<Input Name>	<Volume Level>	<Zone>	Sets the current VOLUME for the specified INPUT at the specified ZONE
	BASS	<Input Name>	<Tone Level>	<Zone>	Sets the current BASS LEVEL for the specified INPUT at the specified ZONE
	TREBLE	<Input Name>	<Tone Level>	<Zone>	Sets the current TREBLE LEVEL for the specified INPUT at the specified ZONE
	GATE	<Micro Name>	ON/OFF		Sets the current NOISE GATE status (ON or OFF) for the specified MIC INPUT
	GATE_THRESHOLD	<Micro Name>	<Threshold Level>		Sets the current NOISE GATE THRESHOLD LEVEL for the specified MIC INPUT
	TALKOVER_ASSIGN	<Micro Name>	<Assign Value>		Sets the current TALKOVER ASSIGN for the specified MIC INPUT
	TALKOVER_PRIORITY	<Micro Name>	<Priority number>		Sets the current TALKOVER PRIORITY for the specified MIC INPUT
	TALKOVER_THRESHOLD	<Micro Name>	<Threshold Level>		Sets the current TALKOVER THRESHOLD LEVEL for the specified MIC INPUT
	TALKOVER_ATTACK	<Micro Name>	<Attack Time Value>		Sets the current TALKOVER ATTACK TIME for the specified MIC INPUT
	TALKOVER_RELEASE	<Micro Name>	<Release Time Value>		Sets the current TALKOVER RELEASE TIME for the specified MIC INPUT
	TALKOVER_DEPTH	<Micro Name>	<Depth Level>		Sets the current TALKOVER DEPTH (attenuation) for the specified MIC INPUT
	MASTER_VOL_INC	<Increment Value>	<Zone>		Increments the current MASTER VOLUME for the specified ZONE
	MASTER_VOL_DEC	<Increment Value>	<Zone>		Decrements the current MASTER VOLUME for the specified ZONE

REMOTE_SELECTOR	<Rem Select Value>	<Zone>		Sets de current REMOTE SELECTOR function for the specified ZONE
IR_REMOTE	ON/OFF			Sets the current IR REMOTE status (ON or OFF)
DISPLAY_MODE	<Display Mode>			Sets the current DISPLAY MODE
LCD_CONTRAST	<Contrast Level>			Sets the current DISPLAY CONTRAST level
AUTO_STANDBY	ON/OFF			Sets the current AUTO STANDBY function status (ON or OFF)
AUTOLOAD_PRESET1	ON/OFF			Sets the current AUTOLOAD_PRESET1 at Startup function
PANEL_LOCKED	ON/OFF			Sets the current PANEL_LOCKED (front panel controls) status

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
DATA	POWER	ON / STANDBY			Shows the current amplifier POWER status
	PRESET_NUMBER	<Preset Number>			Shows the current PRESET NUMBER
	PRESET_DONE				Shows that the last SET LOAD_PRESET n command has been processed: the preset is loaded and active
	OUTPUT_MODE	<Output Mode>			Shows the current amplifier OUTPUT MODE
	ZONE_LABEL	<Zone Label>	<Zone>		Show the current LABEL (name) for the specified ZONE
	MUTE	ON/OFF	<Zone>		Shows the current MUTE status for the specified ZONE
	MASTER_VOL	<Volume Level>	<Zone>		Shows the current MASTER VOLUME for the specified ZONE
	INPUT	<Input Name>	ON/OFF	<Zone>	Shows the status (ON/OFF) for the specified INPUT at the specified ZONE
	VOL	<Input Name>	<Volume Level>	<Zone>	Shows the current VOLUME for the specified INPUT at the specified ZONE
	BASS	<Input Name>	<Tone Level>	<Zone>	Shows the current BASS LEVEL for the specified INPUT at the specified ZONE
	TREBLE	<Input Name>	<Tone Level>	<Zone>	Shows the current TREBLE LEVEL for the specified INPUT at the specified ZONE
	GATE	<Micro Name>	ON/OFF		Shows the current NOISE GATE status (ON or OFF) for the specified MIC INPUT
	GATE_THRESHOLD	<Micro Name>	<Threshold Level>		Shows the current NOISE GATE THRESHOLD LEVEL for the specified MIC INPUT
	TALKOVER_ASSIGN	<Micro Name>	<Assign Value>		Shows the current TALKOVER ASSIGN for the specified MIC INPUT
	TALKOVER_PRIORITY	<Micro Name>	<Priority number>		Shows the current TALKOVER PRIORITY for the specified MIC INPUT
	TALKOVER_THRESHOLD	<Micro Name>	<Threshold Level>		Shows the current TALKOVER THRESHOLD LEVEL for the specified MIC INPUT
	TALKOVER_ATTACK	<Micro Name>	<Attack Time Value>		Shows the current TALKOVER ATTACK TIME for the specified MIC INPUT
	TALKOVER_RELEASE	<Micro Name>	<Release Time Value>		Shows the current TALKOVER RELEASE TIME for the specified MIC INPUT
	TALKOVER_DEPTH	<Micro Name>	<Depth Level>		Shows the current TALKOVER DEPTH (attenuation) for the specified MIC INPUT

REMOTE_SELECTOR	<Rem Select Value>	<Zone>		Shows the current REMOTE SELECTOR function for the specified ZONE
IR_REMOTE	ON/OFF			Shows the current IR REMOTE status (ON or OFF)
DISPLAY_MODE	<Display Mode>			Shows the current DISPLAY MODE
LCD_CONTRAST	<Contrast Level>			Shows the current DISPLAY CONTRAST level
AUTO_STANDBY	ON/OFF			Shows the current AUTO STANDBY function status (ON or OFF)
AUTOLOAD_PRESET1	ON/OFF			Shows the current AUTOLOAD_PRESET1 at Startup function
PANEL_LOCKED	ON/OFF			Shows the current PANEL_LOCKED (front panel controls) status
INFO_MODEL	<Device Model>			Shows the Device model name
INFO_VERSION	<Firmware Version>			Shows the current Firmware Version

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TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
GET	ALL				Dumps current device status (with DATA messages)
	INFO_MODEL				Gets the Device model name
	INFO_VERSION				Gets the current Firmware Version
	AUTOLOAD_PRESET1				Gets the current AUTOLOAD_PRESET1 at Startup function
	PRESET_NUMBER				Gets the current PRESET number
	PRESET_NAME	<Preset=P1:P20> <Preset=T1:T6>			Gets a certain PRESET (from P1 to P20) or TEMPLATE (from T1 to T6) name
	REMOTE_MODE	<Remote=R1:R4>			Gets the working mode for a certain REMOTE port (from R1 to R4)
	REMOTE_INPUTS	<Remote=R1:R4>			Gets the list of inputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	REMOTE_ZONES	<Remote=R1:R4>			Gets the list of outputs affected by the working mode of a certain REMOTE port (from R1 to R4)

DISPLAY_MODE				Gets the current LCD DISPLAY MODE
LCD_CONTRAST				Gets the current LCD DISPLAY CONTRAST level
EXT_MUTE_ZONES				Gets the outputs to be muted by an external contact closure, connected to the MUTE port
IN_LABEL	<Input=1:15>			Gets the current LABEL (name) for the specified INPUT
IN_STEREO	<Input=4:15>			Gets the current STEREO link status (ON or OFF) for INPUTs 4 and 5
IN_MUTE	<Input=1:15>			Gets the current MUTE status (ON or OFF) for the specified INPUT
IN_VOL	<Input=1:15>			Gets the current VOLUME for the specified INPUT (general input volume, affecting all the post processing)
IN_BASS	<Input=1:15>			Gets the current BASS tone LEVEL for the specified INPUT
IN_MID	<Input=1:15>			Gets the current MIDDLE tone LEVEL for the specified INPUT
IN_TREBLE	<Input=1:15>			Gets the current TREBLE tone LEVEL for the specified INPUT
HPF_ACTIVE	<Input=4:15>			Gets the current HIGH PASS FILTER status (ON or OFF) for the specified INPUT
HPF_FREQUENCY	<Input=4:15>			Gets the current HIGH PASS FILTER frequency (Hz) for the specified INPUT
FBS_ACTIVE	<Input=4:15>			Gets the current FEEDBACK SUPPRESSOR feature status (ON or OFF) for the specified INPUT
GATE_ACTIVE	<Input=4:15>			Gets the current NOISE GATE status (ON or OFF) for the specified INPUT
GATE_THRESHOLD	<Input=4:15>			Gets the current NOISE GATE THRESHOLD LEVEL (dBx10) for the specified INPUT
GATE_DEPTH	<Input=4:15>			Gets the current NOISE GATE DEPTH (attenuation when gate is closed, dBx10) for the specified INPUT
GATE_ATTACK	<Input=4:15>			Gets the current NOISE GATE ATTACK TIME (milliseconds x10) for the specified INPUT
GATE_HOLD	<Input=4:15>			Gets the current NOISE GATE HOLD TIME (milliseconds x10) for the specified INPUT
GATE_RELEASE	<Input=4:15>			Gets the current NOISE GATE RELEASE TIME (milliseconds x10) for the specified INPUT

TALKOVER_ACTIVE	<Input=I4:I5>			Gets the current TALKOVER status (ON or OFF) for the specified INPUT
TALKOVER_MODE	<Input=I4:I5>			Gets the TALKOVER function working mode (PAGER or DUCKER) for the specified INPUT
TALKOVER_PRIORITY	<Input=I4:I5>			Gets the current TALKOVER PRIORITY level (LOW or HIGH) for the specified INPUT
TALKOVER_ZONES	<Input=I4:I5>			Gets the current TALKOVER assignment to outputs (ZONES) for the specified INPUT
TALKOVER_THRESHOLD	<Input=I4:I5>			Gets the current TALKOVER THRESHOLD LEVEL (dBx10) for the specified INPUT
TALKOVER_DEPTH	<Input=I4:I5>			Gets the current TALKOVER DEPTH (attenuation, dBx10) for the specified INPUT
TALKOVER_ATTACK	<Input=I4:I5>			Gets the current TALKOVER ATTACK TIME (milliseconds x10) for the specified INPUT
TALKOVER_HOLD	<Input=I4:I5>			Gets the current TALKOVER HOLD TIME (milliseconds x10) for the specified INPUT
TALKOVER_RELEASE	<Input=I4:I5>			Gets the current TALKOVER RELEASE TIME (milliseconds x10) for the specified INPUT
CHIME_MELODY	<Input=I4:I5>			Gets the current CHIME MELODY selected for the TALKOVER function in PAGER mode
CHIME_VOL	<Input=I4:I5>			Gets the current CHIME MELODY VOLUME (dBx10) adjusted for the TALKOVER function in PAGER mode
XSELECT	<Input=I1:I5>	<Zone=ZA:ZD>		Gets the current CROSSPOINT SELECT status (ON (input active) or OFF (input muted)) for the specified INPUT at the specified output zone
XLEVEL	<Input=I1:I5>	<Zone=ZA:ZD>		Gets the current CROSSPOINT LEVEL (mix level) for the specified INPUT at the specified output zone
ZONE_LABEL	<Zone=ZA:ZD>			Gets the current LABEL (name) for the specified output zone
ZONE_STEREO	<Zone=ZA:ZD>			Gets the current STEREO link status (ON or OFF) the specified output zone

ZONE_MUTE	<Zone=ZA:ZD>			Gets the current MUTE status (ON or OFF) for the specified output zone
ZONE_VOL	<Zone=ZA:ZD>			Gets the current VOLUME for the specified output zone
GEQ_ACTIVE	<Zone=ZA:ZD>			Gets the current GRAPHICAL EQUALIZER status (ON or OFF) for the specified output zone
GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>		Gets the current GAIN (dBx10) of one BAND (B1 to B10) of the GRAPHICAL EQUALIZER for the specified output zone
XOVER_ACTIVE	<Zone=ZA:ZD>			Gets the current CROSSOVER FILTER status (ON or OFF) for the specified output zone
XOVER_TYPE	<Zone=ZA:ZD>			Gets the current CROSSOVER FILTER TYPE (LP or HP) for the specified output zone
XOVER_FREQUENCY	<Zone=ZA:ZD>			Gets the current CROSSOVER FILTER FREQUENCY (Hz) for the specified output zone

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
SET	AUTOLOAD_PRESET1	ON/OFF			Sets the current AUTOLOAD_PRESET1 at Startup function
	PRESET_NUMBER	<Preset=P1:P20> <Preset=T1:T9>			Sets (loads) the current PRESET number
	LOAD_PRESET	<Preset=P1:P20> <Preset=T1:T9>			Sets (loads) the current PRESET number (same function as PRESET_NUMBER)
	SAVE_PRESET	<Preset=P1:P20>	"<Name>"		Saves the current configuration into a certain PRESET position (from P1 to P20) and with a certain LABEL, or name (between quotation marks to allow for blank characters in the label)
	REMOTE_MODE	<Remote=R1:R4>	<RemoteMode>		Sets the working mode for a certain REMOTE port (from R1 to R4). Valid working modes are: DISABLED, IN_VOL, ZONE_VOL, IN_SEL, IN_SEL_IN_LEVEL, IN_SEL_ZONE_VOL, PRESET, PRESET_ZONE_VOL
	REMOTE_INPUTS	<Remote=R1:R4>	<Inputs=I1:I5>		Sets the list of inputs affected by the working mode of a certain REMOTE port (from R1 to R4). Inputs parameter can include I1 to I5, separated by comma characters and no blank space (example: I1,I2,I3)
	REMOTE_ZONES	<Remote=R1:R4>	<Zones=ZA:ZD>		Sets the list of outputs affected by the working mode of a certain REMOTE port (from R1 to R4). Zones parameter can include ZA to ZD, separated by comma characters and no blank space (example: ZA,ZC,ZD)
	DISPLAY_MODE	<DisplayMode>			Sets the current LCD DISPLAY MODE (NORMAL or DIMMED or OFF)
	LCD_CONTRAST	<Contrast=0:100>			Sets the current LCD DISPLAY CONTRAST level
	EXT_MUTE_ZONES	<Zones=ZA:ZD>			Sets the list of outputs to be muted by an external contact closure, connected to the MUTE port. Zones parameter can include ZA to ZD, separated by comma characters and no blank space (example: ZA,ZC,ZD)
	IN_LABEL	<Input=I1:I5>	"<Label>"		Sets the current LABEL (name) for the specified INPUT (between quotation marks to allow for blank characters in the label)
	IN_STEREO	<Input=I4:I5>	ON/OFF		Sets the current STEREO link status (ON or OFF) for INPUTs 4 and 5
	IN_MUTE	<Input=I1:I5>	ON/OFF		Sets the current MUTE status (ON or OFF) for the specified INPUT

IN_VOL	<Input=I1:I5>	<Volume=0:99>		Sets the current VOLUME for the specified INPUT (general input volume, affecting all the post processing)
IN_BASS	<Input=I1:I5>	<Gain=dBx10>		Sets the current BASS tone LEVEL for the specified INPUT
IN_MID	<Input=I1:I5>	<Gain=dBx10>		Sets the current MIDDLE tone LEVEL for the specified INPUT
IN_TREBLE	<Input=I1:I5>	<Gain=dBx10>		Sets the current TREBLE tone LEVEL for the specified INPUT
HPF_ACTIVE	<Input=I4:I5>	ON/OFF		Sets the current HIGH PASS FILTER status (ON or OFF) for the specified INPUT
HPF_FREQUENCY	<Input=I4:I5>	<Frequency=Hz>		Sets the current HIGH PASS FILTER frequency (Hz) for the specified INPUT
FBS_ACTIVE	<Input=I4:I5>	ON/OFF		Sets the current FEEDBACK SUPPRESSOR feature status (ON or OFF) for the specified INPUT
GATE_ACTIVE	<Input=I4:I5>	ON/OFF		Sets the current NOISE GATE status (ON or OFF) for the specified INPUT
GATE_THRESHOLD	<Input=I4:I5>	<Threshold=dBx10>		Sets the current NOISE GATE THRESHOLD LEVEL (dBx10) for the specified INPUT
GATE_DEPTH	<Input=I4:I5>	<Depth=dBx10>		Sets the current NOISE GATE DEPTH (attenuation when gate is closed, dBx10) for the specified INPUT
GATE_ATTACK	<Input=I4:I5>	<AttackTime=msx10>		Sets the current NOISE GATE ATTACK TIME (milliseconds x10) for the specified INPUT
GATE_HOLD	<Input=I4:I5>	<HoldTime=msx10>		Sets the current NOISE GATE HOLD TIME (milliseconds x10) for the specified INPUT
GATE_RELEASE	<Input=I4:I5>	<ReleaseTime=msx10> >		Sets the current NOISE GATE RELEASE TIME (milliseconds x10) for the specified INPUT
TALKOVER_ACTIVE	<Input=I4:I5>	ON/OFF		Sets the current TALKOVER status (ON or OFF) for the specified INPUT
TALKOVER_MODE	<Input=I4:I5>	PAGER/DUCKER		Sets the TALKOVER function working mode (PAGER or DUCKER) for the specified INPUT
TALKOVER_PRIORITY	<Input=I4:I5>	LOW/HIGH		Sets the current TALKOVER PRIORITY level (LOW or HIGH) for the specified INPUT
TALKOVER_ZONES	<Input=I4:I5>	<Zones=ZA:ZD>		Sets the current TALKOVER assignment to outputs (ZONES) for the specified INPUT. Zones parameter can include ZA to ZD, separated by comma characters and no blank space (example: ZA,ZC,ZD)

TALKOVER_THRESHOLD	<Input=I4:I5>	<Threshold=dBx10>		Sets the current TALKOVER THRESHOLD LEVEL (dBx10) for the specified INPUT
TALKOVER_DEPTH	<Input=I4:I5>	<Depth=dBx10>		Sets the current TALKOVER DEPTH (attenuation, dBx10) for the specified INPUT
TALKOVER_ATTACK	<Input=I4:I5>	<AttackTime=msx10>		Sets the current TALKOVER ATTACK TIME (milliseconds x10) for the specified INPUT
TALKOVER_HOLD	<Input=I4:I5>	<HoldTime=msx10>		Sets the current TALKOVER HOLD TIME (milliseconds x10) for the specified INPUT
TALKOVER_RELEASE	<Input=I4:I5>	<ReleaseTime=msx10>		Sets the current TALKOVER RELEASE TIME (milliseconds x10) for the specified INPUT
CHIME_MELODY	<Input=I4:I5>	<ChimeMelody>		Sets the current CHIME MELODY selected for the TALKOVER function in PAGER mode
CHIME_VOL	<Input=I4:I5>	<Volume=dBx10>		Sets the current CHIME MELODY VOLUME (dBx10) adjusted for the TALKOVER function in PAGER mode
XSELECT	<Input=I1:I5>	<Zone=ZA:ZD>	ON/OFF	Sets the current CROSSPOINT SELECT status (ON (input active) or OFF (input muted)) for the specified INPUT at the specified output zone
XLEVEL	<Input=I1:I5>	<Zone=ZA:ZD>	<Level=0:99>	Sets the current CROSSPOINT LEVEL (mix level) for the specified INPUT at the specified output zone
ZONE_LABEL	<Zone=ZA:ZD>	"<Label>"		Sets the current LABEL (name) for the specified output zone (between quotation marks to allow for blank characters in the label)
ZONE_STEREO	<Zone=ZA:ZD>	ON/OFF		Sets the current STEREO link status (ON or OFF) the specified output zone
ZONE_MUTE	<Zone=ZA:ZD>	ON/OFF		Sets the current MUTE status (ON or OFF) for the specified output zone
ZONE_VOL	<Zone=ZA:ZD>	<Volume=0:99>		Sets the current VOLUME for the specified output zone
GEQ_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Sets the current GRAPHICAL EQUALIZER status (ON or OFF) for the specified output zone
GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>	<Gain=dBx10>	Sets the current GAIN (dBx10) of one BAND (B1 to B10) of the GRAPHICAL EQUALIZER for the specified output zone
XOVER_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Sets the current CROSSOVER FILTER status (ON or OFF) for the specified output zone

XOVER_TYPE	<Zone=ZA:ZD>	LP/HP		Sets the current CROSSOVER FILTER TYPE (LP or HP) for the specified output zone
XOVER_FREQUENCY	<Zone=ZA:ZD>	<Frequency=Hz>		Sets the current CROSSOVER FILTER FREQUENCY (Hz) for the specified output zone

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
DATA	INFO_MODEL	<DeviceModel>			Shows the Device model name
	INFO_VERSION	<FirmwareVersion>			Shows the current Firmware Version
	AUTOLOAD_PRESET1	ON/OFF			Shows the current AUTOLOAD_PRESET1 at Startup function
	PRESET_NUMBER	<Preset=P1:P20> <Preset=T1:T6>			Shows the current PRESET number (active preset)
	PRESET_NAME	<Preset=P1:P20> <Preset=T1:T6>	"<Name>"		Shows a certain PRESET (from P1 to P20) or TEMPLATE (from T1 to T6) name
	PRESET_DONE	<Preset=P1:P20> <Preset=T1:T6>			Shows that the last SET LOAD_PRESET or SET PRESET_NUMBER command has been processed: the preset is loaded and active
	REMOTE_MODE	<Remote=R1:R4>	<RemoteMode>		Shows the working mode for a certain REMOTE port (from R1 to R4)
	REMOTE_INPUTS	<Remote=R1:R4>	<Inputs=I1:I5>		Shows the list of inputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	REMOTE_ZONES	<Remote=R1:R4>	<Zones=ZA:ZD>		Shows the list of outputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	DISPLAY_MODE	<DisplayMode>			Shows the current DISPLAY MODE
	LCD_CONTRAST	<Contrast=0:100>			Shows the current DISPLAY CONTRAST level
	EXT_MUTE_ZONES	<Zones=ZA:ZD>			Shows the list of outputs to be muted by an external contact closure, connected to the MUTE port
	IN_LABEL	<Input=I1:I5>	"<Label>"		Shows the current LABEL (name) for the specified INPUT
	IN_STEREO	<Input=I4:I5>	ON/OFF		Shows the current STEREO link status (ON or OFF) for INPUTs 4 and 5

IN_MUTE	<Input=I1:I5>	ON/OFF		Shows the current MUTE status (ON or OFF) for the specified INPUT
IN_VOL	<Input=I1:I5>	<Volume=0:99>		Shows the current VOLUME for the specified INPUT (general input volume, affecting all the post processing)
IN_BASS	<Input=I1:I5>	<Gain=dBx10>		Shows the current BASS tone LEVEL for the specified INPUT
IN_MID	<Input=I1:I5>	<Gain=dBx10>		Shows the current MIDDLE tone LEVEL for the specified INPUT
IN_TREBLE	<Input=I1:I5>	<Gain=dBx10>		Shows the current TREBLE tone LEVEL for the specified INPUT
HPF_ACTIVE	<Input=I4:I5>	ON/OFF		Shows the current HIGH PASS FILTER status (ON or OFF) for the specified INPUT
HPF_FREQUENCY	<Input=I4:I5>	<Frequency=Hz>		Shows the current HIGH PASS FILTER frequency (Hz) for the specified INPUT
FBS_ACTIVE	<Input=I4:I5>	ON/OFF		Shows the current FEEDBACK SUPPRESSOR feature status (ON or OFF) for the specified INPUT
GATE_ACTIVE	<Input=I4:I5>	ON/OFF		Showss the current NOISE GATE status (ON or OFF) for the specified INPUT
GATE_THRESHOLD	<Input=I4:I5>	<Threshold=dBx10>		Shows the current NOISE GATE THRESHOLD LEVEL (dBx10) for the specified INPUT
GATE_DEPTH	<Input=I4:I5>	<Depth=dBx10>		Shows the current NOISE GATE DEPTH (attenuation when gate is closed, dBx10) for the specified INPUT
GATE_ATTACK	<Input=I4:I5>	<AttackTime=ms>		Shows the current NOISE GATE ATTACK TIME (milliseconds x10) for the specified INPUT
GATE_HOLD	<Input=I4:I5>	<HoldTime=ms>		Shows the current NOISE GATE HOLD TIME (milliseconds x10) for the specified INPUT
GATE_RELEASE	<Input=I4:I5>	<ReleaseTime=ms>		Shows the current NOISE GATE RELEASE TIME (milliseconds x10) for the specified INPUT
TALKOVER_ACTIVE	<Input=I4:I5>	ON/OFF		Shows the current TALKOVER status (ON or OFF) for the specified INPUT
TALKOVER_MODE	<Input=I4:I5>	PAGER/DUCKER		Shows the TALKOVER function working mode (PAGER or DUCKER) for the specified INPUT
TALKOVER_PRIORITY	<Input=I4:I5>	LOW/HIGH		Shows the current TALKOVER PRIORITY level (LOW or HIGH) for the specified INPUT

TALKOVER_ZONES	<Input=I4:I5>	<Zones=ZA:ZD>		Shows the current TALKOVER assignment to outputs (ZONES) for the specified INPUT
TALKOVER_THRESHOLD	<Input=I4:I5>	<Threshold=dBx10>		Shows the current TALKOVER THRESHOLD LEVEL (dBx10) for the specified INPUT
TALKOVER_DEPTH	<Input=I4:I5>	<Depth=dBx10>		Shows the current TALKOVER DEPTH (attenuation, dBx10) for the specified INPUT
TALKOVER_ATTACK	<Input=I4:I5>	<AttackTime=msx10>		Shows the current TALKOVER ATTACK TIME (milliseconds x10) for the specified INPUT
TALKOVER_HOLD	<Input=I4:I5>	<HoldTime=msx10>		Shows the current TALKOVER HOLD TIME (milliseconds x10) for the specified INPUT
TALKOVER_RELEASE	<Input=I4:I5>	<ReleaseTime=msx10>		Shows the current TALKOVER RELEASE TIME (milliseconds x10) for the specified INPUT
CHIME_MELODY	<Input=I4:I5>	<ChimeMelody>		Shows the current CHIME MELODY selected for the TALKOVER function in PAGER mode
CHIME_VOL	<Input=I4:I5>	<Volume=dBx10>		Shows the current CHIME VOLUME (dBx10) adjusted for the TALKOVER function in PAGER mode
XSELECT	<Input=I1:I5>	<Zone=ZA:ZD>	ON/OFF	Shows the current CROSSPOINT SELECT status (ON (input active) or OFF (input muted)) for the specified INPUT at the specified output zone
XLEVEL	<Input=I1:I5>	<Zone=ZA:ZD>	<Level=0:99>	Shows the current CROSSPOINT LEVEL (mix level) for the specified INPUT at the specified output zone
ZONE_LABEL	<Zone=ZA:ZD>	"<Label>"		Shows the current LABEL (name) for the specified output zone
ZONE_STEREO	<Zone=ZA:ZD>	ON/OFF		Shows the current STEREO link status (ON or OFF) the specified output zone
ZONE_MUTE	<Zone=ZA:ZD>	ON/OFF		Shows the current MUTE status (ON or OFF) for the specified output zone
ZONE_VOL	<Zone=ZA:ZD>	<Volume=0:99>		Shows the current VOLUME for the specified output zone
GEQ_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Shows the current GRAPHICAL EQUALIZER status (ON or OFF) for the specified output zone
GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>	<Gain=dBx10>	Shows the current GAIN (dBx10) of one BAND (B1 to B10) of the GRAPHICAL EQUALIZER for the specified output zone

XOVER_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Shows the current CROSSOVER FILTER status (ON or OFF) for the specified output zone
XOVER_TYPE	<Zone=ZA:ZD>	LP/HP		Shows the current CROSSOVER FILTER TYPE (LP or HP) for the specified output zone
XOVER_FREQUENCY	<Zone=ZA:ZD>	<Frequency=Hz>		Shows the current CROSSOVER FILTER FREQUENCY (Hz) for the specified output zone

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
INC/DEC	PRESET_NUMBER	<Count>			INC rements / DEC rements the current active PRESET number
	IN_VOL	<Input=I1:I5>	<Count>		Increments / decrements a certain INPUT's current VOLUME. The increment applied is defined by the Count parameter (dBx10)
	IN_BASS	<Input=I1:I5>	<Count>		Increments / decrements a certain INPUT's current BASS tone LEVEL. The increment applied is defined by the Count parameter (dBx10)
	IN_MID	<Input=I1:I5>	<Count>		Increments / decrements a certain INPUT's current MIDDLE tone LEVEL. The increment applied is defined by the Count parameter (dBx10)
	IN_TREBLE	<Input=I1:I5>	<Count>		Increments / decrements a certain INPUT's current TREBLE tone LEVEL. The increment applied is defined by the Count parameter (dBx10)
	XLEVEL	<Input=I1:I5>	<Zone=ZA:ZD>	<Count>	Increments / decrements a certain CROSSPOINT current VOLUME (matrix level sent from one input to one output). The increment applied is defined by the Count parameter (dBx10)
	ZONE_VOL	<Zone=ZA:ZD>	<Count>		Increments / decrements a certain output ZONE current VOLUME. The increment applied is defined by the Count parameter (dBx10)
	GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>	<Count>	Increments / decrements, in a certain output ZONE, the current GAIN for a certain GRAPHICAL EQUALIZER band. The increment applied is defined by the Count parameter (dBx10)

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
ERROR	<Error ID>	"<Error Description>"			Informes about an error

ERROR CODES

ERROR ID	DESCRIPTION
0	No Error
1	Invalid field TYPE
2	Invalid field PARAM1
3	Invalid field PARAM2
4	Invalid field PARAM3
5	Invalid field PARAM4
9	Rejected Message
10	Message too long (more than 80 characters)
11	Unsupported Preset number
17	Invalid Level value

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TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
GET	ALL				Dumps current device status (with DATA messages)
	INFO_MODEL				Gets the Device model name
	INFO_VERSION				Gets the current Firmware Version
	AUTOLOAD_PRESET1				Gets the current AUTOLOAD_PRESET1 at Startup function
	PRESET_NUMBER				Gets the current PRESET number
	PRESET_NAME	<Preset=P1:P20> <Preset=T1:T9>			Gets a certain PRESET (from P1 to P20) or TEMPLATE (from T1 to T9) name
	REMOTE_MODE	<Remote=R1:R4>			Gets the working mode for a certain REMOTE port (from R1 to R4)
	REMOTE_INPUTS	<Remote=R1:R4>			Gets the list of inputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	REMOTE_ZONES	<Remote=R1:R4>			Gets the list of outputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	DISPLAY_MODE				Gets the current LCD DISPLAY MODE
	LCD_CONTRAST				Gets the current LCD DISPLAY CONTRAST level
	EXT_MUTE_ZONES				Gets the outputs to be muted by an external contact closure, connected to the MUTE port
	IN_LABEL	<Input=I1:I6>			Gets the current LABEL (name) for the specified INPUT
	IN_STEREO	<Input=I3:I6>			Gets the current STEREO link status (ON or OFF) for INPUTs 3 and 4
	IN_MUTE	<Input=I1:I6>			Gets the current MUTE status (ON or OFF) for the specified INPUT
	IN_VOL	<Input=I1:I6>			Gets the current VOLUME for the specified INPUT (general input volume, affecting all the post processing)
	IN_BASS	<Input=I1:I6>			Gets the current BASS tone LEVEL for the specified INPUT
	IN_MID	<Input=I1:I6>			Gets the current MIDDLE tone LEVEL for the specified INPUT
	IN_TREBLE	<Input=I1:I6>			Gets the current TREBLE tone LEVEL for the specified INPUT
	HPF_ACTIVE	<Input=I3:I6>			Gets the current HIGH PASS FILTER status (ON or OFF) for the specified INPUT
	HPF_FREQUENCY	<Input=I3:I6>			Gets the current HIGH PASS FILTER frequency (Hz) for the specified INPUT

FBS_ACTIVE	<Input=I3:I6>			Gets the current FEEDBACK SUPPRESSOR feature status (ON or OFF) for the specified INPUT
GATE_ACTIVE	<Input=I3:I6>			Gets the current NOISE GATE status (ON or OFF) for the specified INPUT
GATE_THRESHOLD	<Input=I3:I6>			Gets the current NOISE GATE THRESHOLD LEVEL (dBx10) for the specified INPUT
GATE_DEPTH	<Input=I3:I6>			Gets the current NOISE GATE DEPTH (attenuation when gate is closed, dBx10) for the specified INPUT
GATE_ATTACK	<Input=I3:I6>			Gets the current NOISE GATE ATTACK TIME (milliseconds x10) for the specified INPUT
GATE_HOLD	<Input=I3:I6>			Gets the current NOISE GATE HOLD TIME (milliseconds x10) for the specified INPUT
GATE_RELEASE	<Input=I3:I6>			Gets the current NOISE GATE RELEASE TIME (milliseconds x10) for the specified INPUT
TALKOVER_ACTIVE	<Input=I3:I6>			Gets the current TALKOVER status (ON or OFF) for the specified INPUT
TALKOVER_MODE	<Input=I3:I6>			Gets the TALKOVER function working mode (PAGER or DUCKER) for the specified INPUT
TALKOVER_PRIORITY	<Input=I3:I6>			Gets the current TALKOVER PRIORITY level (LOW or HIGH) for the specified INPUT
TALKOVER_ZONES	<Input=I3:I6>			Gets the current TALKOVER assignment to outputs (ZONES) for the specified INPUT
TALKOVER_THRESHOLD	<Input=I3:I6>			Gets the current TALKOVER THRESHOLD LEVEL (dBx10) for the specified INPUT
TALKOVER_DEPTH	<Input=I3:I6>			Gets the current TALKOVER DEPTH (attenuation, dBx10) for the specified INPUT
TALKOVER_ATTACK	<Input=I3:I6>			Gets the current TALKOVER ATTACK TIME (milliseconds x10) for the specified INPUT
TALKOVER_HOLD	<Input=I3:I6>			Gets the current TALKOVER HOLD TIME (milliseconds x10) for the specified INPUT
TALKOVER_RELEASE	<Input=I3:I6>			Gets the current TALKOVER RELEASE TIME (milliseconds x10) for the specified INPUT

CHIME_MELODY	<Input=I3:I6>			Gets the current CHIME MELODY selected for the TALKOVER function in PAGER mode
CHIME_VOL	<Input=I3:I6>			Gets the current CHIME MELODY VOLUME (dBx10) adjusted for the TALKOVER function in PAGER mode
XSELECT	<Input=I1:I6>	<Zone=ZA:ZD>		Gets the current CROSSPOINT SELECT status (ON (input active) or OFF (input muted)) for the specified INPUT at the specified output zone
XLEVEL	<Input=I1:I6>	<Zone=ZA:ZD>		Gets the current CROSSPOINT LEVEL (mix level) for the specified INPUT at the specified output zone
ZONE_LABEL	<Zone=ZA:ZD>			Gets the current LABEL (name) for the specified output zone
ZONE_STEREO	<Zone=ZA:ZD>			Gets the current STEREO link status (ON or OFF) the specified output zone
ZONE_MUTE	<Zone=ZA:ZD>			Gets the current MUTE status (ON or OFF) for the specified output zone
ZONE_VOL	<Zone=ZA:ZD>			Gets the current VOLUME for the specified output zone
GEQ_ACTIVE	<Zone=ZA:ZD>			Gets the current GRAPHICAL EQUALIZER status (ON or OFF) for the specified output zone
GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>		Gets the current GAIN (dBx10) of one BAND (B1 to B10) of the GRAPHICAL EQUALIZER for the specified output zone
XOVER_ACTIVE	<Zone=ZA:ZD>			Gets the current CROSSOVER FILTER status (ON or OFF) for the specified output zone
XOVER_TYPE	<Zone=ZA:ZD>			Gets the current CROSSOVER FILTER TYPE (LP or HP) for the specified output zone
XOVER_FREQUENCY	<Zone=ZA:ZD>			Gets the current CROSSOVER FILTER FREQUENCY (Hz) for the specified output zone
COMPRESSOR_ACTIVE	<Zone=ZA:ZD>			Gets the current COMPRESSOR status (ON or OFF) for the specified output zone
COMPRESSOR_THRESHOLD	<Zone=ZA:ZD>			Gets the current COMPRESSOR THRESHOLD LEVEL (dBx10) for the specified output zone
COMPRESSOR_RATIO	<Zone=ZA:ZD>			Gets the current COMPRESSOR RATIO (x100) for the specified output zone
COMPRESSOR_ATTACK	<Zone=ZA:ZD>			Gets the current COMPRESSOR ATTACK TIME (milliseconds x10) for the specified output zone
COMPRESSOR_RELEASE	<Zone=ZA:ZD>			Gets the current COMPRESSOR RELEASE TIME (milliseconds x10) for the specified output zone

COMPRESSOR_KNEE	<Zone=ZA:ZD>			Gets the current COMPRESSOR KNEE mode (SOFT or HARD) for the specified output zone
COMPRESSOR_GAIN	<Zone=ZA:ZD>			Gets the current COMPRESSOR GAIN (dBx10) for the specified output zone
DELAY_ACTIVE	<Zone=ZA:ZD>			Gets the current DELAY status (ON or OFF) for the specified output zone
DELAY_TIME	<Zone=ZA:ZD>			Gets the current DELAY TIME (milliseconds x10) for the specified output zone

TYP E	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
SET	AUTOLOAD_PRESET1	ON/OFF			Sets the current AUTOLOAD_PRESET1 at Startup function
	PRESET_NUMBER	<Preset=P1:P20> <Preset=T1:T9>			Sets (loads) the current PRESET number
	LOAD_PRESET	<Preset=P1:P20> <Preset=T1:T9>			Sets (loads) the current PRESET number (same function as PRESET_NUMBER)
	SAVE_PRESET	<Preset=P1:P20>	"<Name>"		Saves the current configuration into a certain PRESET position (from P1 to P20) and with a certain LABEL, or name (between quotation marks to allow for blank characters in the label)
	REMOTE_MODE	<Remote=R1:R4>	<RemoteMode>		Sets the working mode for a certain REMOTE port (from R1 to R4). Valid working modes are: DISABLED, IN_VOL, ZONE_VOL, IN_SEL, IN_SEL_IN_LEVEL, IN_SEL_ZONE_VOL, PRESET, PRESET_ZONE_VOL
	REMOTE_INPUTS	<Remote=R1:R4>	<Inputs=I1:I6>		Sets the list of inputs affected by the working mode of a certain REMOTE port (from R1 to R4). Inputs parameter can include I1 to I6, separated by comma characters and no blank space (example: I1,I2,I3)
	REMOTE_ZONES	<Remote=R1:R4>	<Zones=ZA:ZD>		Sets the list of outputs affected by the working mode of a certain REMOTE port (from R1 to R4). Zones parameter can include ZA to ZD, separated by comma characters and no blank space (example: ZA,ZC,ZD)
	DISPLAY_MODE	<DisplayMode>			Sets the current LCD DISPLAY MODE (NORMAL or DIMMED or OFF)
	LCD_CONTRAST	<Contrast=0:100>			Sets the current LCD DISPLAY CONTRAST level
	EXT_MUTE_ZONES	<Zones=ZA:ZD>			Sets the list of outputs to be muted by an external contact closure, connected to the MUTE port. Zones parameter can include ZA to ZD, separated by comma characters and no blank space (example: ZA,ZC,ZD)
	IN_LABEL	<Input=I1:I6>	"<Label>"		Sets the current LABEL (name) for the specified INPUT (between quotation marks to allow for blank characters in the label)
	IN_STEREO	<Input=I3:I6>	ON/OFF		Sets the current STEREO link status (ON or OFF) for INPUTs 4 and 5

IN_MUTE	<Input=I1:I6>	ON/OFF		Sets the current MUTE status (ON or OFF) for the specified INPUT
IN_VOL	<Input=I1:I6>	<Volume=0:99>		Sets the current VOLUME for the specified INPUT (general input volume, affecting all the post processing)
IN_BASS	<Input=I1:I6>	<Gain=dBx10>		Sets the current BASS tone LEVEL for the specified INPUT
IN_MID	<Input=I1:I6>	<Gain=dBx10>		Sets the current MIDDLE tone LEVEL for the specified INPUT
IN_TREBLE	<Input=I1:I6>	<Gain=dBx10>		Sets the current TREBLE tone LEVEL for the specified INPUT
HPF_ACTIVE	<Input=I3:I6>	ON/OFF		Sets the current HIGH PASS FILTER status (ON or OFF) for the specified INPUT
HPF_FREQUENCY	<Input=I3:I6>	<Frequency=Hz>		Sets the current HIGH PASS FILTER frequency (Hz) for the specified INPUT
FBS_ACTIVE	<Input=I3:I6>	ON/OFF		Sets the current FEEDBACK SUPPRESSOR feature status (ON or OFF) for the specified INPUT
GATE_ACTIVE	<Input=I3:I6>	ON/OFF		Sets the current NOISE GATE status (ON or OFF) for the specified INPUT
GATE_THRESHOLD	<Input=I3:I6>	<Threshold=dBx10>		Sets the current NOISE GATE THRESHOLD LEVEL (dBx10) for the specified INPUT
GATE_DEPTH	<Input=I3:I6>	<Depth=dBx10>		Sets the current NOISE GATE DEPTH (attenuation when gate is closed, dBx10) for the specified INPUT
GATE_ATTACK	<Input=I3:I6>	<AttackTime=msx10>		Sets the current NOISE GATE ATTACK TIME (milliseconds x10) for the specified INPUT
GATE_HOLD	<Input=I3:I6>	<HoldTime=msx10>		Sets the current NOISE GATE HOLD TIME (milliseconds x10) for the specified INPUT
GATE_RELEASE	<Input=I3:I6>	<ReleaseTime=msx10>		Sets the current NOISE GATE RELEASE TIME (milliseconds x10) for the specified INPUT
TALKOVER_ACTIVE	<Input=I3:I6>	ON/OFF		Sets the current TALKOVER status (ON or OFF) for the specified INPUT
TALKOVER_MODE	<Input=I3:I6>	PAGER/DUCKER		Sets the TALKOVER function working mode (PAGER or DUCKER) for the specified INPUT
TALKOVER_PRIORITY	<Input=I3:I6>	LOW/HIGH		Sets the current TALKOVER PRIORITY level (LOW or HIGH) for the specified INPUT

TALKOVER_ZONES	<Input=I3:I6>	<Zones=ZA:ZD>		Sets the current TALKOVER assignment to outputs (ZONES) for the specified INPUT. Zones parameter can include ZA to ZD, separated by comma characters and no blank space (example: ZA,ZC,ZD)
TALKOVER_THRESHOLD	<Input=I3:I6>	<Threshold=dBx10>		Sets the current TALKOVER THRESHOLD LEVEL (dBx10) for the specified INPUT
TALKOVER_DEPTH	<Input=I3:I6>	<Depth=dBx10>		Sets the current TALKOVER DEPTH (attenuation, dBx10) for the specified INPUT
TALKOVER_ATTACK	<Input=I3:I6>	<AttackTime=msx10>		Sets the current TALKOVER ATTACK TIME (milliseconds x10) for the specified INPUT
TALKOVER_HOLD	<Input=I3:I6>	<HoldTime=msx10>		Sets the current TALKOVER HOLD TIME (milliseconds x10) for the specified INPUT
TALKOVER_RELEASE	<Input=I3:I6>	<ReleaseTime=msx10>		Sets the current TALKOVER RELEASE TIME (milliseconds x10) for the specified INPUT
CHIME_MELODY	<Input=I3:I6>	<ChimeMelody>		Sets the current CHIME MELODY selected for the TALKOVER function in PAGER mode
CHIME_VOL	<Input=I3:I6>	<Volume=dBx10>		Sets the current CHIME MELODY VOLUME (dBx10) adjusted for the TALKOVER function in PAGER mode
XSELECT	<Input=I1:I6>	<Zone=ZA:ZD>	ON/OFF	Sets the current CROSSPOINT SELECT status (ON (input active) or OFF (input muted)) for the specified INPUT at the specified output zone
XLEVEL	<Input=I1:I6>	<Zone=ZA:ZD>	<Level=0:99>	Sets the current CROSSPOINT LEVEL (mix level) for the specified INPUT at the specified output zone
ZONE_LABEL	<Zone=ZA:ZD>	"<Label>"		Sets the current LABEL (name) for the specified output zone (between quotation marks to allow for blank characters in the label)
ZONE_STEREO	<Zone=ZA:ZD>	ON/OFF		Sets the current STEREO link status (ON or OFF) the specified output zone
ZONE_MUTE	<Zone=ZA:ZD>	ON/OFF		Sets the current MUTE status (ON or OFF) for the specified output zone
ZONE_VOL	<Zone=ZA:ZD>	<Volume=0:99>		Sets the current VOLUME for the specified output zone
GEQ_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Sets the current GRAPHICAL EQUALIZER status (ON or OFF) for the specified output zone

GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>	<Gain=dBx10>	Sets the current GAIN (dBx10) of one BAND (B1 to B10) of the GRAPHICAL EQUALIZER for the specified output zone
XOVER_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Sets the current CROSSOVER FILTER status (ON or OFF) for the specified output zone
XOVER_TYPE	<Zone=ZA:ZD>	LP/HP		Sets the current CROSSOVER FILTER TYPE (LP or HP) for the specified output zone
XOVER_FREQUENCY	<Zone=ZA:ZD>	<Frequency=Hz>		Sets the current CROSSOVER FILTER FREQUENCY (Hz) for the specified output zone
COMPRESSOR_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Sets the current COMPRESSOR status (ON or OFF) for the specified output zone
COMPRESSOR_THRESHOLD	<Zone=ZA:ZD>	<Threshold=dBx10>		Sets the current COMPRESSOR THRESHOLD LEVEL (dBx10) for the specified output zone
COMPRESSOR_RATIO	<Zone=ZA:ZD>	<Ratio=x100>		Sets the current COMPRESSOR RATIO (x100) for the specified output zone
COMPRESSOR_ATTACK	<Zone=ZA:ZD>	<AttackTime=msx10>		Sets the current COMPRESSOR ATTACK TIME (milliseconds x10) for the specified output zone
COMPRESSOR_RELEASE	<Zone=ZA:ZD>	<ReleaseTime=msx10>		Sets the current COMPRESSOR RELEASE TIME (milliseconds x10) for the specified output zone
COMPRESSOR_KNEE	<Zone=ZA:ZD>	SOFT/HARD		Sets the current COMPRESSOR KNEE mode (SOFT or HARD) for the specified output zone
COMPRESSOR_GAIN	<Zone=ZA:ZD>	<Gain=dBx10>		Sets the current COMPRESSOR GAIN (dBx10) for the specified output zone
DELAY_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Sets the current DELAY status (ON or OFF) for the specified output zone
DELAY_TIME	<Zone=ZA:ZD>	<DelayTime=msx10>		Sets the current DELAY TIME (milliseconds x10) for the specified output zone

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
DATA	INFO_MODEL	<DeviceModel>			Shows the Device model name
	INFO_VERSION	<FirmwareVersion>			Shows the current Firmware Version
	AUTOLOAD_PRESET1	ON/OFF			Shows the current AUTOLOAD_PRESET1 at Startup function
	PRESET_NUMBER	<Preset=P1:P20> <Preset=T1:T9>			Shows the current PRESET number (active preset)
	PRESET_NAME	<Preset=P1:P20> <Preset=T1:T9>	"<Name>"		Shows a certain PRESET (from P1 to P20) or TEMPLATE (from T1 to T9) name
	PRESET_DONE	<Preset=P1:P20> <Preset=T1:T9>			Shows that the last SET LOAD_PRESET or SET PRESET_NUMBER command has been processed: the preset is loaded and active
	REMOTE_MODE	<Remote=R1:R4>	<RemoteMode>		Shows the working mode for a certain REMOTE port (from R1 to R4)
	REMOTE_INPUTS	<Remote=R1:R4>	<Inputs=I1:I6>		Shows the list of inputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	REMOTE_ZONES	<Remote=R1:R4>	<Zones=ZA:ZD>		Shows the list of outputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	DISPLAY_MODE	<DisplayMode>			Shows the current DISPLAY MODE
	LCD_CONTRAST	<Contrast=0:100>			Shows the current DISPLAY CONTRAST level
	EXT_MUTE_ZONES	<Zones=ZA:ZD>			Shows the list of outputs to be muted by an external contact closure, connected to the MUTE port
	IN_LABEL	<Input=I1:I6>	"<Label>"		Shows the current LABEL (name) for the specified INPUT
	IN_STEREO	<Input=I3:I6>	ON/OFF		Shows the current STEREO link status (ON or OFF) for INPUTs 4 and 5
	IN_MUTE	<Input=I1:I6>	ON/OFF		Shows the current MUTE status (ON or OFF) for the specified INPUT

IN_VOL	<Input=I1:I6>	<Volume=0:99>		Shows the current VOLUME for the specified INPUT (general input volume, affecting all the post processing)
IN_BASS	<Input=I1:I6>	<Gain=dBx10>		Shows the current BASS tone LEVEL for the specified INPUT
IN_MID	<Input=I1:I6>	<Gain=dBx10>		Shows the current MIDDLE tone LEVEL for the specified INPUT
IN_TREBLE	<Input=I1:I6>	<Gain=dBx10>		Shows the current TREBLE tone LEVEL for the specified INPUT
HPF_ACTIVE	<Input=I3:I6>	ON/OFF		Shows the current HIGH PASS FILTER status (ON or OFF) for the specified INPUT
HPF_FREQUENCY	<Input=I3:I6>	<Frequency=Hz>		Shows the current HIGH PASS FILTER frequency (Hz) for the specified INPUT
FBS_ACTIVE	<Input=I3:I6>	ON/OFF		Shows the current FEEDBACK SUPPRESSOR feature status (ON or OFF) for the specified INPUT
GATE_ACTIVE	<Input=I3:I6>	ON/OFF		Shows the current NOISE GATE status (ON or OFF) for the specified INPUT
GATE_THRESHOLD	<Input=I3:I6>	<Threshold=dBx10>		Shows the current NOISE GATE THRESHOLD LEVEL (dBx10) for the specified INPUT
GATE_DEPTH	<Input=I3:I6>	<Depth=dBx10>		Shows the current NOISE GATE DEPTH (attenuation when gate is closed, dBx10) for the specified INPUT
GATE_ATTACK	<Input=I3:I6>	<AttackTime=ms>		Shows the current NOISE GATE ATTACK TIME (milliseconds x10) for the specified INPUT
GATE_HOLD	<Input=I3:I6>	<HoldTime=ms>		Shows the current NOISE GATE HOLD TIME (milliseconds x10) for the specified INPUT
GATE_RELEASE	<Input=I3:I6>	<ReleaseTime=ms>		Shows the current NOISE GATE RELEASE TIME (milliseconds x10) for the specified INPUT
TALKOVER_ACTIVE	<Input=I3:I6>	ON/OFF		Shows the current TALKOVER status (ON or OFF) for the specified INPUT
TALKOVER_MODE	<Input=I3:I6>	PAGER/DUCKER		Shows the TALKOVER function working mode (PAGER or DUCKER) for the specified INPUT
TALKOVER_PRIORITY	<Input=I3:I6>	LOW/HIGH		Shows the current TALKOVER PRIORITY level (LOW or HIGH) for the specified INPUT
TALKOVER_ZONES	<Input=I3:I6>	<Zones=ZA:ZD>		Shows the current TALKOVER assignment to outputs (ZONES) for the specified INPUT

TALKOVER_THRESHOLD	<Input=I3:I6>	<Threshold=dBx10>		Shows the current TALKOVER THRESHOLD LEVEL (dBx10) for the specified INPUT
TALKOVER_DEPTH	<Input=I3:I6>	<Depth=dBx10>		Shows the current TALKOVER DEPTH (attenuation, dBx10) for the specified INPUT
TALKOVER_ATTACK	<Input=I3:I6>	<AttackTime=msx10>		Shows the current TALKOVER ATTACK TIME (milliseconds x10) for the specified INPUT
TALKOVER_HOLD	<Input=I3:I6>	<HoldTime=msx10>		Shows the current TALKOVER HOLD TIME (milliseconds x10) for the specified INPUT
TALKOVER_RELEASE	<Input=I3:I6>	<ReleaseTime=msx10>		Shows the current TALKOVER RELEASE TIME (milliseconds x10) for the specified INPUT
CHIME_MELODY	<Input=I3:I6>	<ChimeMelody>		Shows the current CHIME MELODY selected for the TALKOVER function in PAGER mode
CHIME_VOL	<Input=I3:I6>	<Volume=dBx10>		Shows the current CHIME VOLUME (dBx10) adjusted for the TALKOVER function in PAGER mode
XSELECT	<Input=I1:I6>	<Zone=ZA:ZD>	ON/OFF	Shows the current CROSSPOINT SELECT status (ON (input active) or OFF (input muted)) for the specified INPUT at the specified output zone
XLEVEL	<Input=I1:I6>	<Zone=ZA:ZD>	<Level=0:99>	Shows the current CROSSPOINT LEVEL (mix level) for the specified INPUT at the specified output zone
ZONE_LABEL	<Zone=ZA:ZD>	"<Label>"		Shows the current LABEL (name) for the specified output zone
ZONE_STEREO	<Zone=ZA:ZD>	ON/OFF		Shows the current STEREO link status (ON or OFF) the specified output zone
ZONE_MUTE	<Zone=ZA:ZD>	ON/OFF		Shows the current MUTE status (ON or OFF) for the specified output zone
ZONE_VOL	<Zone=ZA:ZD>	<Volume=0:99>		Shows the current VOLUME for the specified output zone
GEQ_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Shows the current GRAPHICAL EQUALIZER status (ON or OFF) for the specified output zone
GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>	<Gain=dBx10> >	Shows the current GAIN (dBx10) of one BAND (B1 to B10) of the GRAPHICAL EQUALIZER for the specified output zone
XOVER_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Shows the current CROSSOVER FILTER status (ON or OFF) for the specified output zone

	XOVER_TYPE	<Zone=ZA:ZD>	LP/HP		Shows the current CROSSOVER FILTER TYPE (LP or HP) for the specified output zone
	XOVER_FREQUENCY	<Zone=ZA:ZD>	<Frequency=Hz>		Shows the current CROSSOVER FILTER FREQUENCY (Hz) for the specified output zone
	COMPRESSOR_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Shows the current COMPRESSOR status (ON or OFF) for the specified output zone
	COMPRESSOR_THRESHOLD	<Zone=ZA:ZD>	<Threshold=dBx10>		Shows the current COMPRESSOR THRESHOLD LEVEL (dBx10) for the specified output zone
	COMPRESSOR_RATIO	<Zone=ZA:ZD>	<Ratio=x100>		Shows the current COMPRESSOR RATIO (x100) for the specified output zone
	COMPRESSOR_ATTACK	<Zone=ZA:ZD>	<AttackTime=msx10>		Shows the current COMPRESSOR ATTACK TIME (milliseconds x10) for the specified output zone
	COMPRESSOR_RELEASE	<Zone=ZA:ZD>	<ReleaseTime=msx10>		Shows the current COMPRESSOR RELEASE TIME (milliseconds x10) for the specified output zone
	COMPRESSOR_KNEE	<Zone=ZA:ZD>	SOFT/HARD		Shows the current COMPRESSOR KNEE mode (SOFT or HARD) for the specified output zone
	COMPRESSOR_GAIN	<Zone=ZA:ZD>	<Gain=dBx10>		Shows the current COMPRESSOR GAIN (dBx10) for the specified output zone
	DELAY_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Shows the current DELAY status (ON or OFF) for the specified output zone
	DELAY_TIME	<Zone=ZA:ZD>	<DelayTime=msx10>		Shows the current DELAY TIME (milliseconds x10) for the specified output zone

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
INC/DEC	PRESET_NUMBER	<Count>			INCrements / DECrements the current active PRESET number
	IN_VOL	<Input=I1:I6>	<Count>		Increments / decrements a certain INPUT's current VOLUME. The increment applied is defined by the Count parameter (dBx10)
	IN_BASS	<Input=I1:I6>	<Count>		Increments / decrements a certain INPUT's current BASS tone LEVEL. The increment applied is defined by the Count parameter (dBx10)
	IN_MID	<Input=I1:I6>	<Count>		Increments / decrements a certain INPUT's current MIDDLE tone LEVEL. The increment applied is defined by the Count parameter (dBx10)
	IN_TREBLE	<Input=I1:I6>	<Count>		Increments / decrements a certain INPUT's current TREBLE tone LEVEL. The increment applied is defined by the Count parameter (dBx10)
	XLEVEL	<Input=I1:I6>	<Zone=ZA:ZD>	<Count>	Increments / decrements a certain CROSSPOINT current VOLUME (matrix level sent from one input to one output). The increment applied is defined by the Count parameter (dBx10)
	ZONE_VOL	<Zone=ZA:ZD>	<Count>		Increments / decrements a certain output ZONE current VOLUME. The increment applied is defined by the Count parameter (dBx10)
	GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>	<Count>	Increments / decrements, in a certain output ZONE, the current GAIN for a certain GRAPHICAL EQUALIZER band. The increment applied is defined by the Count parameter (dBx10)

All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

For technical queries contact your supplier, distributor or complete the contact form on our website, in [Support / Technical requests](#).

Motors, 166-168 08038 Barcelona - Spain - (+34) 932238403 | information@ecler.com | www.ecler.com