



# GPM 8.3

GEBRUIKSAANWIJZING  
USER MANUAL

**DATEQ**  
*audio technologies*

## Safety instructions

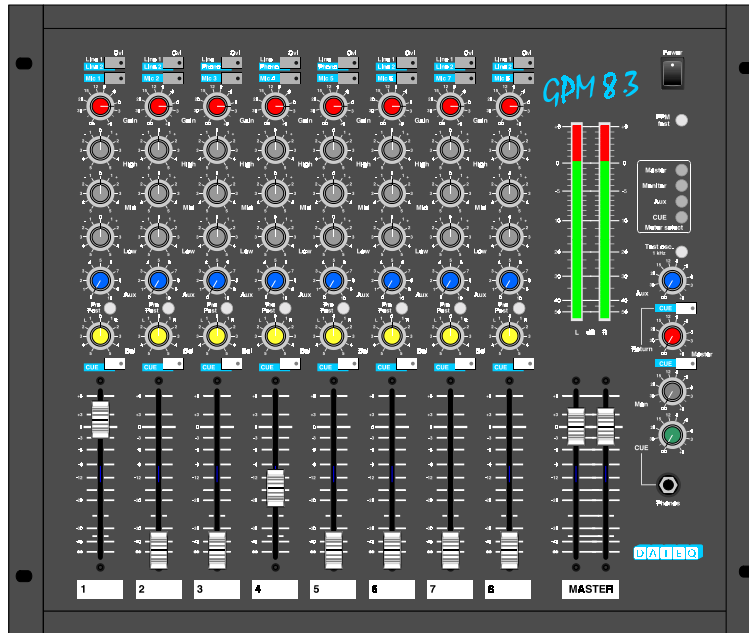
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- 1 All safety instructions, warnings and operating instructions must be read first.
- 2 All warnings on the equipment must be heeded.
- 3 The operating instructions must be followed.
- 4 Keep the operating instructions for future reference.
- 5 The equipment may never be used in the immediate vicinity of water; make sure that water and damp cannot get into the equipment.
- 6 The equipment may only be installed or fitted in accordance with the manufacturers recommendations.
- 7 The equipment must be installed or fitted such that good ventilation is not obstructed in any way.
- 8 The equipment may never be installed in the immediate vicinity of sources of heat, such as parts of heating units, boilers, and other equipment which generates heat (including amplifiers).
- 9 Connect the equipment to a power supply of the correct voltage, using only the cables recommended by the manufacturer, as specified in the operating instructions and/or shown on the connection side of the equipment.
- 10 The equipment may only be connected to a legally approved earthed mains power supply.
- 11 The power cable or power cord must be positioned such that it cannot be walked on in normal use, and objects which might damage the cable or cord cannot be placed on it or against it. Special attention must be paid to the point at which the cable is attached to the equipment and where the cable is connected to the power supply.
- 12 Ensure that foreign objects and liquids cannot get into the equipment.
- 13 The equipment must be cleaned using the method recommended by the manufacturer.
- 14 If the equipment is not being used for a prolonged period, the power cable or power cord should be disconnected from the power supply.
- 15 In all cases where there is a risk, following an incident, that the equipment could be unsafe, such as:
  - if the power cable or power cord has been damaged
  - if foreign objects or liquids (including water) have entered the equipment
  - if the equipment has suffered a fall or the casing has been damaged
  - if a change in the performance of the equipment is noticedit must be checked by appropriately qualified technical staff.
- 16 The user may not carry out any work on the equipment other than that specified in the operating instructions.



## GPM 8.3: Multipurpose Compact Mixing Console

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The GPM 8.3 is a very versatile, 8 channel stereo mixer with an extraordinary high quality. At least 16 stereosignals and 8 microphones can be connected simultaneously. Herewith the GPM 8.3 is introducing a new standard for professional audio.

Each channel can handle three different audiosignals. By pressing the button you can switch between a microphone or a line input. When the line-input is selected a second button makes it possible to switch between line 1 and line 2 input. However channels 3, 4 and 5 have one line and one phono-input. This means you can have 24 audio-inputs within reach! Another typical professional application is the balanced stereo master output on a XLR-Male connector; besides this connector there is a cinch-connector.

Another nice feature of the mixer is the stereo AUX. This output contains the mixed pre or post-fader signal of any of the modules.

The large 2x40 segment VU-meter is switchable between master, monitor, AUX and CUE. All microphones have an internal jumper to enable or disable the 48V phantom power. The master has a noise-gate which can be disabled with an internal jumper.

Thanks to the internally modular set-up, the extreme solid construction and by using only high-performance components we made the GPM 8.3 an ideal partner for 'on the road'. Of course the GPM 8.3 has the specific characteristics of a 'real DATEQ mixer', which means years of satisfactory mixing!

Because of the universal design the GPM 8.3 has a wide area of applications. A perfect house-mix, AV-post production, disco or a multifunctional audio installation: The GPM 8.3 can handle it...

## Productsupport

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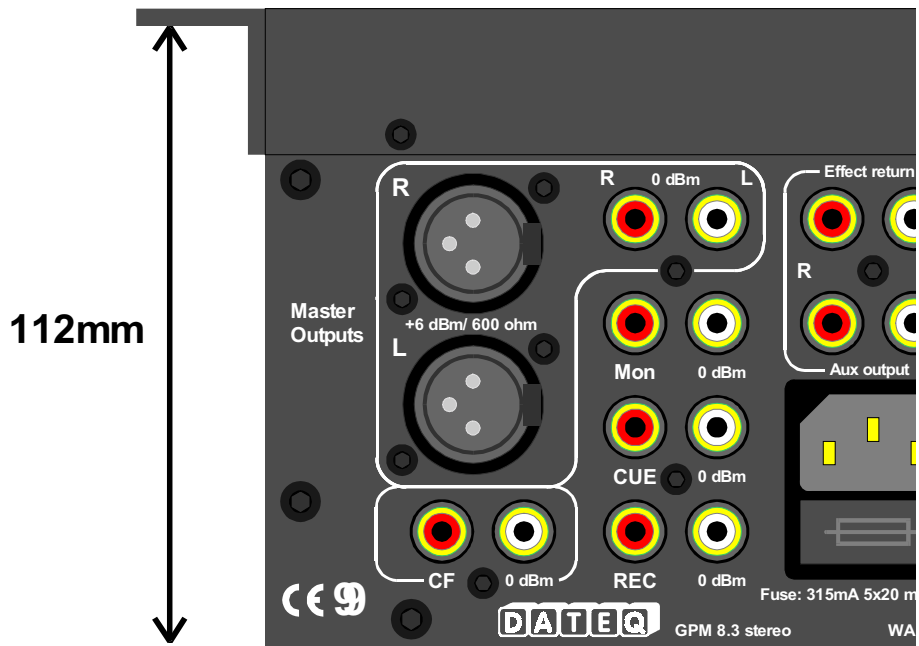
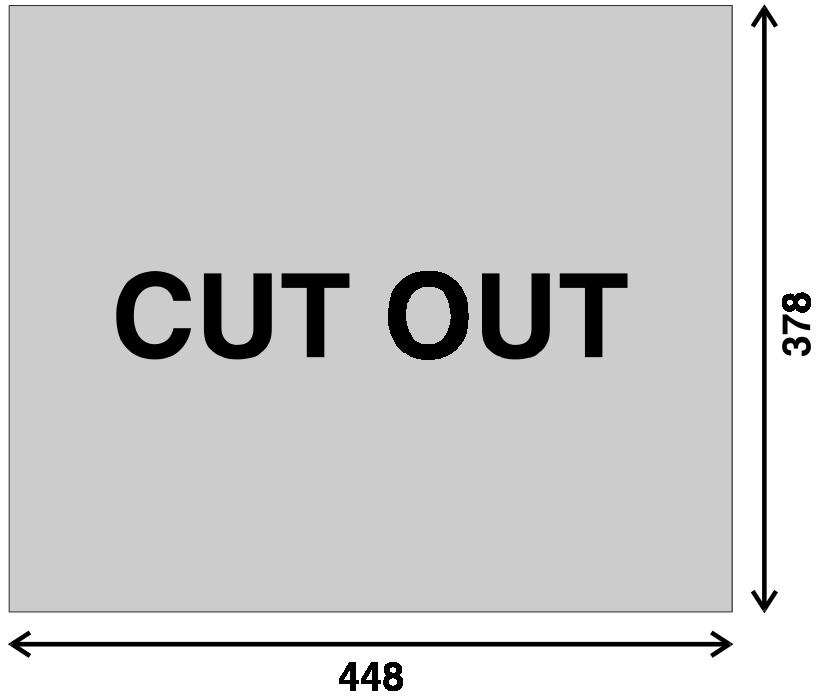
For questions regarding the GPM 8.3, accessoires and other products, please contact

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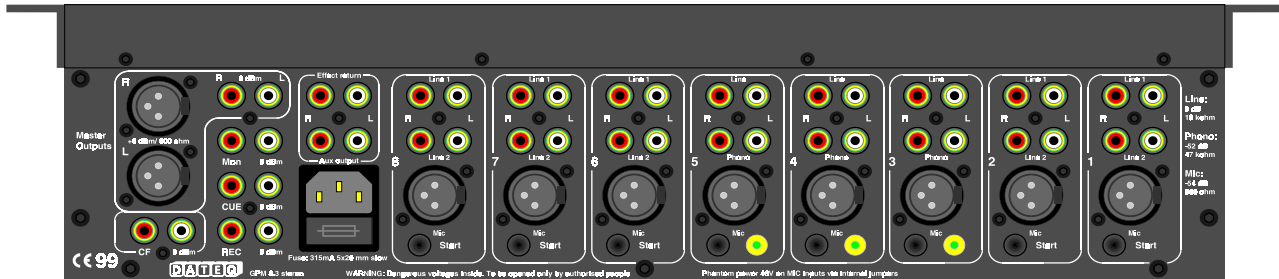
## Mounting the GPM 8.3

The GPM 8.3 can be used as stand-alone or built-in (mounted). The housing fits in an opening of 448 x 378 x 112mm (W x H x D). See also the drawings below. When mounting take into account the protruding connectors at the back of the GPM 8.3.



## GPM 8.3 Connectorboard

The connections for all audio in- and outputs are situated at the back of the GPM 8.3. The mains inlet and the fuse are also located here.



### L/ R Balanced master outputs (XLR 3-pins male)

Pin	Function	Type
1	Audio GND	A-GND
2	Audio +	Out
3	Audio -	Out

### Master/ Mon/ CUE/ Rec/ CF/ AUX stereo outputs

Pin	Function	Type
Tip	Audio +	Out
Shield	Audio GND	A-GND

### Phones Output (TRS Jack 3p)

Pin	Function	Type
Tip	Left	Out
Ring	Right	Out
Sleeve	Audio GND	A-GND

### Phono/ Line 1/ Line 2/ Effect return stereo inputs (Cinch female)

Pin	Function	Type
Tip	Audio +	In
Shield	Audio GND	A-GND

### Balanced Mic inputs (XLR 3-pins female)

Pin	Function	Type
1	Audio GND	A-GND
2	Audio +	In
3	Audio -	In

### Start output (TS Mini Jack 2p)

Pin	Function	Type
Tip	N.O. (switch contact)	Out
Sleeve	C (Switch contact)	Out

## Connections

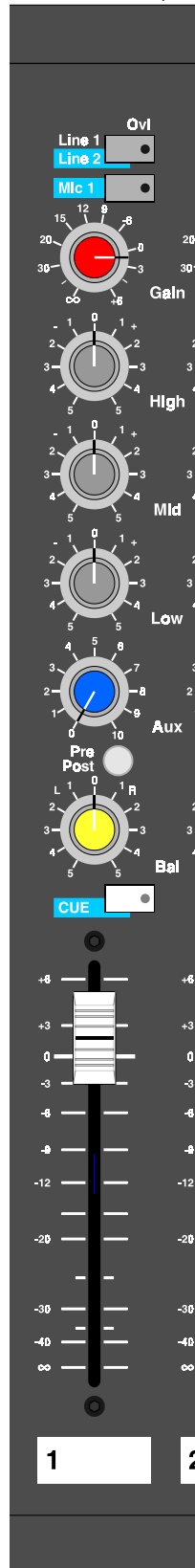
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<b>BALANCED MASTER L/R</b>	Electronically balanced master outputs for the left and right channel on XLR connectors. This type of output guarantees a perfect signal transport even when long audio cables are being used. These outputs are equipped with relays to prevent audible 'blobs' on connected equipment when the GPM 8.3 is switched on or off.
<b>MASTER</b>	Unbalanced master output on cinch-connectors. Can be used to connect the GPM 8.3 to an amplifier or a recorder. These output is equipped with relays to prevent audible 'blobs' on connected equipment when the GPM 8.3 is switched on or off.
<b>MON</b>	Unbalanced monitor output on cinch connectors. Can be used to connect a second amplifier with monitor speakers for the DJ or a second room.
<b>CUE</b>	Unbalanced output on cinch connectors. This output follows the pre-fader listening. This output can be used to connect an amplifier (monitor) or recorder.
<b>REC</b>	Unbalanced recorder output on cinch-connectors. This output is fixed-level (independent of the master volume control).
<b>AUX</b>	Stereo AUX output. This can be used to connect effect-equipment.
<b>CF</b>	Stereo cleanfeed output on cinch connectors. This output can be used to connect an external telephone-hybrid.
<b>EFFECT RETURN</b>	Stereo effect return input. Can also be used as an extra input.
<b>CHANNELS 1..8 LINE/ PHONO</b>	Cinch connectors for all stereo channels. Channel 1, 2, 6, 7 and 8 have two identical line inputs. Channels 3, 4 and 5 have both an input for turntables (phono) and an input for equipment like CD-players, samplers, keyboards and recorders (line). When turntables are being used, they can be earthed by means of the earth-clamp.
<b>CHANNELS 1..8 MIC</b>	Electronically balanced microphone input on XLR connector. When used unbalanced, connect pin 1 and 3 with the shielding of the cable. Both channels are equipped with a secondary stereo line input.
<b>START</b>	All channels are equipped with a remote start connector. As soon as the fader of the concerning channel is opened, the contact between tip and ring of this mini jack (3,5 mm) connection is made. With this the connected equipment can be remote started. <i>The remote-connection is NOT suitable for switching mains voltage!</i>
<b>FUSE</b>	Mains fuse. Dimension 5x20mm (small), 315mA slow.
<b>MAINS</b>	Euro-style mains inlet. Before connecting the GPM 8.3 for the first time, check if your GPM 8.3 is meant for the mains voltage in your country (label on the connector board at the rear).

**For all cinch-connectors:  
White = Left, Red = Right.**

## Microphone/ line channels (1, 2, 6, 7 and 8)

These channels are equipped with a double input selector which makes it possible to easily switch between 2 line inputs (such as CD-players, MD recorders) and a microphone source, as well as a Gain control, 3-way tone control, balance and pre-fader listening.



- Line 1/ Line2** Input selector. When pushed line 2 is selected the LED will light up green. The LED will light up red when the audio-level somewhere in this module is too high and can cause distortion (3dB below clip-level).
- MIC** Input selector. When pushed the LED will light up green and the MIC input is activated.
- GAIN** Determines the pre-adjustment of the volume for the Mic as well as both stereo line inputs.
- HIGH** High tone control.
- MID** Mid tone control.
- LOW** Low tone control.
- AUX** Level control for the signal that is being send to the AUX-buss.
- PRE-POST** This switch makes it possible to send the pre or post-fader signal to the AUX-buss.
- BALANCE** Adjusts the balance between the left and right audio channel. In centerposition left and right audio channel are equal.
- CUE** Switches pre-fader listening on and off. A LED will indicate whether the CUE-function on this channel is active.
- FADER** 100 mm fader through which the volume of this channel can be determined precisely.

## Combined Turntable/ line/ microphone channels (3, 4 and 5)

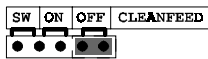
These three stereo channels have three inputs (Phono for turntables, Line for equipment like CD-players and MD-recorders and Mic for a Microphone input), Gain control, 3-way tone control, balance and pre-fader listening.



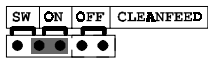
- PHONO/ LINE** Input selector. Normally the line input is selected. When pushed the phono input is selected, the LED lights up green. The LED will light up red when the audio-level somewhere in this module is too high and can cause distortion (3dB below clip-level).
- MIC** Input selector. When pushed the MIC input will be activated, the LED lights up green.
- GAIN** Determines the pre-adjustment of the volume for the Mic as well as both stereo disc/ line inputs.

## Cleanfeed and phantom settings

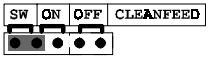
All modules can send their signal to the cleanfeed-buss. By means of an internal jumper (see drawing below) it is possible to select one of three different configurations:



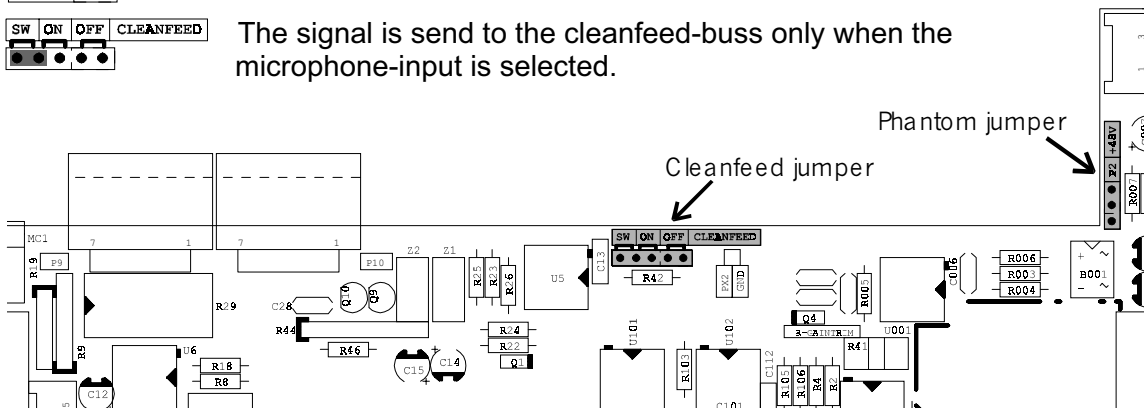
No signal is send to the cleanfeed-buss (the default setting),



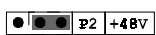
The signal will be send to the cleanfeed-buss,



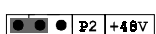
The signal is send to the cleanfeed-buss only when the microphone-input is selected.



A phantom-power can be supplied to the microphone inputs. This can be done with the phantom-jumper (see the drawing above). By default the phantom-power is disabled on all the microphone inputs.



Phantompower is switched off (default)

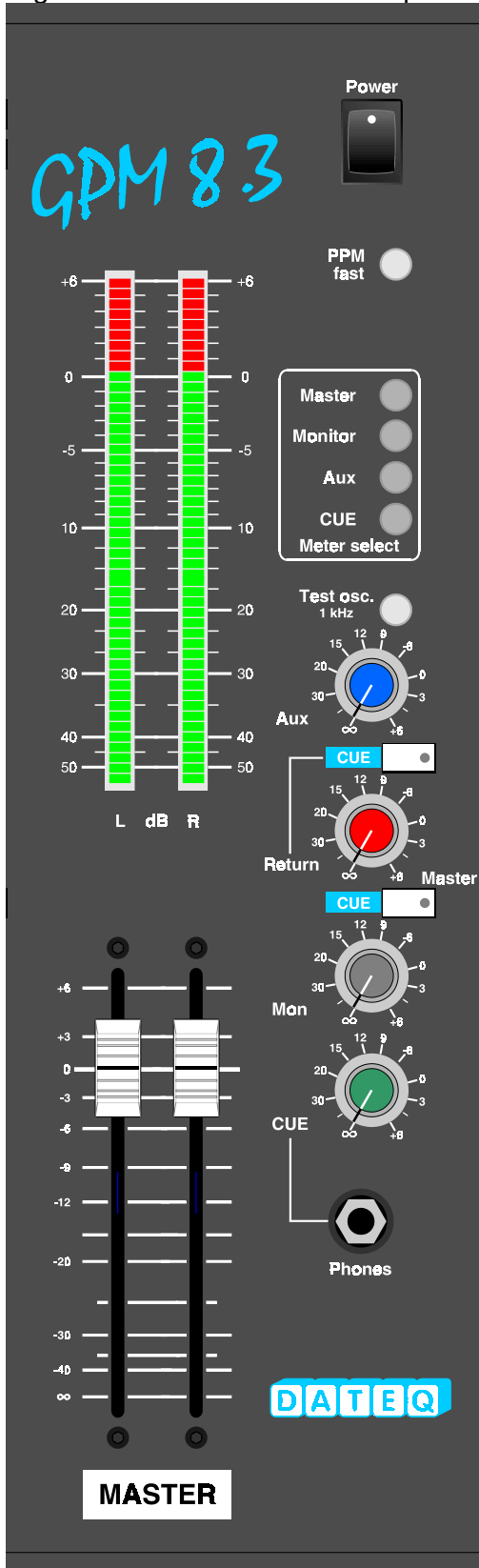


Phantompower is enabled



# Master

The master section has volume controls for the various outputs of the GPM 8.3 and a 2 x 40 segments LED-bar meter which precisely indicates the master, monitor, AUX or CUE signal level.

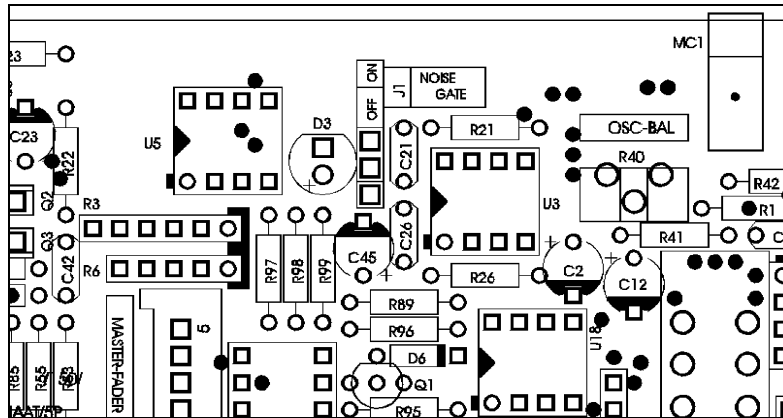


- POWER** Mains power switch.
- PPM/ fast** Herewith you can adjust the delay-speed of the meters. When PPM is selected the meter has a longer release time. When fast is selected short peak levels can be displayed.
- METER SELECT** Buttons to select the different meter input sources.
- TEST OSC.** Enables the test oscillator. This generates a 1kHz 0dB tone on the master outputs.
- AUX** Volume control for the AUX-output.
- CUE** CUE-switch to listen to the effect-return signal.
- RETURN** Volume control for the effect-return input.
- MASTER CUE** CUE-switch to listen to the master signal.
- MON** Volume control for the monitor output.
- CUE** Volume control for the headphone output.
- PHONES** Headphone output.
- MASTER** Dual master-fader which controls the output level of the master output (both balanced and unbalanced).

## Noisegate

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The noisegate in the mastersection can be enabled or disabled by means of an internal jumper. The drawing below shows the position of this jumper.



Factory setting: the noisegate is enabled.

## Internal attenuator at the input-modules

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Each input-module has an internal attenuator to prevent the input-signal from being distorted. By default the attenuator is disabled (potentiometer turned clockwise).

When more attenuation is needed the GPM8.3 has to be opened. The attenuation can be adjusted for each input-module separately. Max. internal attenuation is 40dB.

## Technical specifications

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### MONO Inputs

MIC (channel 1..8) .....	XLR-3 female, electronically balanced
Signal level .....	-54 dB @ 600 ohm variable
Impedance .....	600 ohm nominal
Input noise .....	< -126 dB (IHF-A)
Headroom .....	20 dB

### STEREO Inputs

PHONO (Channel 3, 4 and 5) .....	Cinch
Signal level .....	-52 dB @ 600 ohm variable
Impedance .....	47 kohm/ 25pF nominal
Input noise .....	< -80 dB (IHF-A)
Channel separation.....	> 78 dB @ 1 kHz

LINE (channel 1..8) .....	Cinch
Signal level .....	0 dB @ 600 ohm variable
Impedance .....	22 kohm nominal
Input noise .....	< -92 dB (IHF-A)
Channel separation.....	> 78 dB @ 1 kHz

### STONE CONTROL

High .....	12 kHz $\pm$ 15 dB, Shelving
Mid .....	1400 Hz $\pm$ 12 dB, Bell
Low .....	50 Hz $\pm$ 15 dB, Shelving

### OUTPUTS

MASTER (XLR).....	+6 dB balanced/ 600 ohm/ variable
MASTER OUT/ MONITOR/ CUE/ CF (Cinch) .	0 dB unbalanced/ 600 ohm/ variable
REC (Cinch).....	0 dB unbalanced/ 600 ohm/ fixed
MONO EFFECT SEND (Cinch) .....	0 dB unbalanced/ 600 ohm/ postfader
PHONES (6,3 mm TRS Jack).....	0,3 W @ 4 ohm/ Impedance 4..32 ohm
Noisegate.....	Dynamic

### FREQUENCY RESPONCE

Line to Master .....	20 Hz...25 kHz -1 dB
Mic to Master .....	80 Hz...25 kHz -1 dB
THD + IM .....	0,003 % nominal

### GENERAL

#### POWER SUPPLY

Mains voltage .....	230 VAC +/-10%/ 50 Hz
Power consumption .....	40 W

### FADERSTART

All channels..... Maximum ratings: 48V/ 0,1A; 3,5 mm jack

### SIZE AND WEIGHT

Front .....	483 x 398 mm (W x H) = 19", 9HE
Cutout .....	448 x 378 mm (W x H)
Depth .....	112 mm
Weight.....	8.8 kg Net.

# VERKLARING VAN OVEREENSTEMMING

acc.to art.10.1 EMC directive 89/336/EEC

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Wij, **DATEQ Audio Technologies b.v.**  
de Paal 37,  
1351 JG ALMERE,  
Nederland

verklaren, uitsluitend op onze verantwoordelijkheid, dat dit produkt

**Type: GPM 8.3            Serienummers: 41-XXXX**

waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende geharmoniseerde Europese normen

EN 50081-1 en EN 50082-1

Volgens de bepalingen van de EMC-richtlijn 89/336/EEG, gewijzigd door de richtlijn 91/263/EEG, 92/31/EEG en 93/68/EEG.

EN 60065

Volgens de bepalingen van IEC 65: 1985 + A1: 1987 + A2: 1989 + A3: 1992, mod. Ratificatie: 1993-07-06

Almere, 9 november 1999

J.H. Kloppenburg, Directeur

stempel:

**DATEQ**  
*audio technologies*  
De Paal 37  
1351 JG Almere  
tel. 036-5472222, fax 036-5317776

handtekening:



# DECLARATION OF CONFORMITY

acc.to art.10.1 EMC directive 89/336/EEC

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We, **DATEQ Audio Technologies B.V.**  
de Paal 37  
1351 JG ALMERE  
THE NETHERLANDS

hereby declare, exclusively to our responsibility, that this product

**Type: GPM 8.3      Serialnrs.: 41-XXXX**

to which this declaration applies, is in accordance with the following  
harmonized European norms

EN 50081-1 and EN 50082-1

According to the regulations of the EMC-directive 89/336/EEG, amended by  
directive 91/263/EEG, 92/31/EEG and 93/68/EEG.

EN 60065

According to the regulations of IEC 65: 1985 + A1: 1987 + A2: 1989 + A3:  
1992, mod. Ratification: 1993-07-06

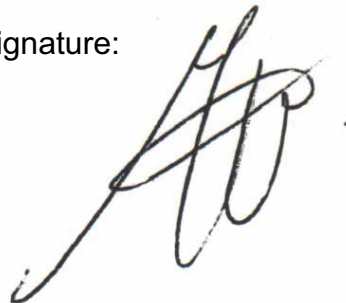
Almere, November 9<sup>th</sup> 1999

J.H. Kloppenburg, managing  
director

stamp:

**DATEQ**  
*audio technologies*  
De Paal 37  
1351 JG Almere  
tel. 036-5472222, fax 036-5317776

signature:





**GARANTIE / GUARANTEE**

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model / Geräte Typ / produit:

serienr / serial # / Seriennr. / no. de série:

dealer / dealer / Vertragshändler / concessionnaire:

adres / adress / Adresse / adresse:

postcode / zip code / PLZ:

woonplaats / city / Wohnort / place:

koper / buyer / Käufer / acheteur:

adres / adress / Adresse / adresse:

postcode / zip code / PLZ:

woonplaats / city / Wohnort / place:

land / country / Land / pays:

aankoopdatum / purchase date / Kaufdatum / date d'achat:

handtekening / signature / Unterschrift



**GARANTIE / GUARANTEE**

bewaren met de aankoop-/kassa-bon  
keep this with original invoice/cash  
behalten mit der Originalrechnung  
conserver avec la facture originale

model / Geräte Typ / produit:

seriennummer / serial # / Seriennummer / no. de série:

aankoopdatum / purchase date / Kaufdatum / date d'achat:

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CONDITIONS: DATEQ guarantees this product to be free of defects and workmanship at the time of its original purchase for the period of 12 months after purchase. If during this period of guarantee the product proves defective due to materials or workmanship, DATEQ will repair or this product or its parts on the conditions explained hereafter. 1. The guarantee will be given on the correctly filled out guarantee card is presented together with the receipt/cash ticket issued to the consumer by the retailer. DATEQ reserves the right to refuse guarantee service if this information or the products serial number has been removed or changed after the original purchase of the product. 2. This guarantee covers none of the following: (a) periodic check-ups, maintenance, and replacement of parts due to normal wear and tear, (b) home service and other costs and risks of transport relating directly or indirectly to this product, (c) damage to this product resulting from abuse and misuse, but not limited to the failure to use this product for its normal intended purpose in accordance with DATEQ's instructions on the proper use and handling of this product and the installation or the use of this product in a way inconsistent with the technical or safety standards in force in the country where the product is used, repairs done by non-authorised service stations, damage of God, or any cause beyond the control of DATEQ, including but not limited to lightning, water, fire, public disturbances and improper ventilation.

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postzegel  
stamp  
briefmarke  
timbre

DATEQ B.V.

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The Netherlands / Niederlande / Pays Bas