### Safety instructions

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 noticed
   it 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.
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 coarse 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

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

Dateq Audio Technologies B.V.
De Paal 37
1351 JG Almere, The Nederlands

Telephone: +31 36 5472222
Fax: +31 36 5317776
E-mail: info@dateq.nl
Internet: www.dateq.nl
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)**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Audio GND</td>
<td>A-GND</td>
</tr>
<tr>
<td>2</td>
<td>Audio +</td>
<td>Out</td>
</tr>
<tr>
<td>3</td>
<td>Audio -</td>
<td>Out</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tip</td>
<td>Audio +</td>
<td>Out</td>
</tr>
<tr>
<td>Shield</td>
<td>Audio GND</td>
<td>A-GND</td>
</tr>
</tbody>
</table>

**Phones Output (TRS Jack 3p)**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tip</td>
<td>Left</td>
<td>Out</td>
</tr>
<tr>
<td>Ring</td>
<td>Right</td>
<td>Out</td>
</tr>
<tr>
<td>Sleeve</td>
<td>Audio GND</td>
<td>A-GND</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tip</td>
<td>Audio +</td>
<td>In</td>
</tr>
<tr>
<td>Shield</td>
<td>Audio GND</td>
<td>A-GND</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Audio GND</td>
<td>A-GND</td>
</tr>
<tr>
<td>2</td>
<td>Audio +</td>
<td>In</td>
</tr>
<tr>
<td>3</td>
<td>Audio -</td>
<td>In</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tip</td>
<td>N.O.</td>
<td>(switch contact)</td>
</tr>
<tr>
<td>Sleeve</td>
<td>C</td>
<td>(Switch contact)</td>
</tr>
<tr>
<td>Connections</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>BALANCED MASTER L/R</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MASTER</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MON</td>
<td>Unbalanced monitor output on cinch connectors. Can be used to connect a second amplifier with monitor speakers for the DJ or a second room.</td>
<td></td>
</tr>
<tr>
<td>CUE</td>
<td>Unbalanced output on cinch connectors. This output follows the pre-fader listening. This output can be used to connect an amplifier (monitor) or recorder.</td>
<td></td>
</tr>
<tr>
<td>REC</td>
<td>Unbalanced recorder output on cinch-connectors. This output is fixed-level (independent of the master volume control).</td>
<td></td>
</tr>
<tr>
<td>AUX</td>
<td>Stereo AUX output. This can be used to connect effect-equipment.</td>
<td></td>
</tr>
<tr>
<td>CF</td>
<td>Stereo cleanfeed output on cinch connectors. This output can be used to connect an external telephone-hybrid.</td>
<td></td>
</tr>
<tr>
<td>EFFECT RETURN</td>
<td>Stereo effect return input. Can also be used as an extra input.</td>
<td></td>
</tr>
<tr>
<td>CHANNELS 1..8</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>LINE/ PHONO</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>CHANNELS 1..8</td>
<td>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. <em>The remote-connection is NOT suitable for switching mains voltage!</em></td>
<td></td>
</tr>
<tr>
<td>MIC</td>
<td>Mains fuse. Dimension 5x20mm (small), 315mA slow.</td>
<td></td>
</tr>
<tr>
<td>MAINS</td>
<td>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).</td>
<td></td>
</tr>
</tbody>
</table>

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**
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

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

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

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

TONE CONTROL
  High ......................................... 12 kHz ±15 dB, Shelving
  Mid .......................................... 1400 Hz ±12 dB, Bell
  Low ......................................... 50 Hz ±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 RESPONSE
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

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


Almere, 9 november 1999  J.H. Kloppenburg, Directeur

stempel: handtekening:
DECLARATION OF CONFORMITY
acc.to art.10.1 EMC directive 89/336/EEC

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


Almere, November 9th 1999

J.H. Kloppenburg, managing
director

stamp: signature:
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</table>

**Dateq Audio Technologies**

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*Envoyer à DATEQ*

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