HIGH RESOLUTION 260 LEDBAR PPM

USER MANUAL

Version 1.01

Geachte klant,

Wij danken u hartelijk voor uw keuze en het vertrouwen dat u in ons product stelt.
U deed een goede keus, dit product is ontworpen door en voor professionele gebruikers.
Er is gebruik gemaakt van onze enorme "know-how" in mengtafel en signaal processor technieken en dit gecombineerd met hoogwaardige componenten geeft u de zekerheid van een lange gebruiksduur.
Bovenstaande eigenschappen resulteren in een zeer betrouwbaar en bedrijfszeker eindproduct.
Deze gebruiksaanwijzing helpt u in het optimaal benutten van alle mogelijkheden die dit product in zich heeft.

Wij excuseren ons voor het feit dat deze gebruiksaanwijzing uitsluitend in het Engels verkrijgbaar is. Dit is een gevolg van het feit dat 99% van onze producten geëxporteerd worden en het Engels de algemeen aanvaarde internationale voertaal is.

Mocht u nog vragen hebben dan kunt u zich altijd tot onze dealers wenden.

Dear client,

Thank you for choosing this product.

This product is designed by specialists in the field of professional audio and is intended to be used as a professional tool.
We are confident that you will be using this product for many years to come, and wish you much success.
We always value suggestions from our clients, and we would therefore be grateful if you could complete and return the questionnaire included at the back of this manual, once you have become familiar with this product. We will certainly learn from your comments, and very much appreciate your time doing this.

With kind regards,

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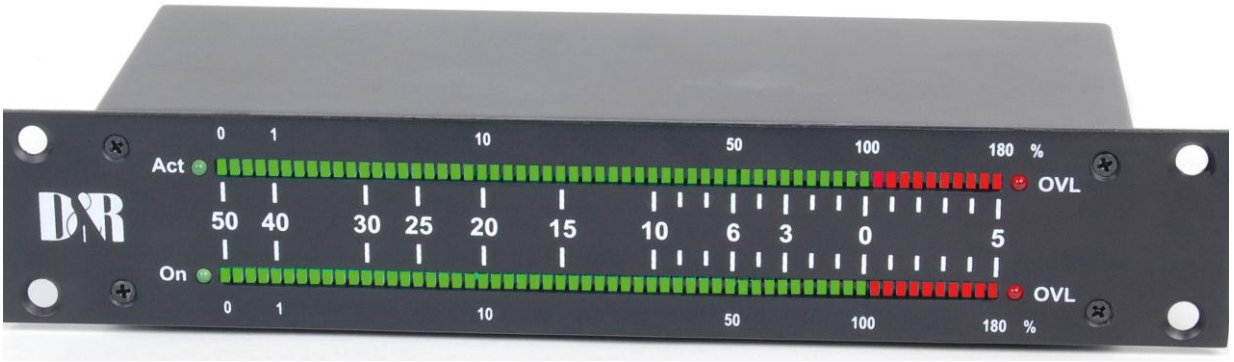

HI-RESOLUTION 260 LEDBAR Introduction

The 2x 60 segment Led Bargaph meter is a professional dual audio peak level meter. It provides accurate readings between -50 up and +5 dB. Housed in a standard 9.5 inch stainless steel case, it has been designed to be used in various environments.

<u>Powering up</u>

Before connecting the unit to the digital Power adapter, check for the appropriate voltage (it should be between 100 volt and 240 volt). The meter will deflect once and then settles. The ON led indicates that power is connected and that the meter is "on". If at any time, this led is not lit (when the unit is connected to the mains), you should disconnect the unit and contact D&R for service advice.

The two balanced XLR female connectors are used as inputs, left and right. This is where the audio analog signal must be connected (1=Ground, 2=Hot and 3 =Cold). Once connected to the audio source the meter will display peak levels between -50 up to +5 dB in 60 steps.

There is also a 9 pole Sub-D connector that has been wired to directly interface with a meter output on the D&R AIRLAB broadcast mixer. The 25 pole male and female XLR connectors are standard MambaNet connectors for the D&R AXUM platform.

<u>Level adjustment</u>

Level adjustments can be made, using the trim pot positioned between the 2 XLR connectors of each Led Bargaph meter. Turning the trimmer clockwise increases the level, counter clockwise decreases the level. For instance, adjusting the level at 0 dB means turning the trimmer clockwise until the 0 dB led just lights. Default settings for both channels are at 0 dB when the actual input is a +4 dB signal (sinewave). Measuring +4 dB output level with an AC voltmeter would give a 1.22 Volt AC reading.

Specifications:

Level range	**: -50dB to +5 dB**
Frequency range	**: 10-60.000 Hz**
Power consumption	**: 50mA/230VAC max.**
Input impedance	**: 10kOhm**
Dimensions	**: Front panel: 241,10 mm x 44 mm**
Dimensions	**: Frame: 199,50 width by 72mm depth and 41mm height.**

NOTE: before use read the safety instructions on the separate sheet very.

DECLARATION OF CONFORMITY

Manufacturers Name	**: D&R Electronica Weesp b.v.**
Manufacturers Address	**: Rijnkade 1 5B**
	:1382 GS Weesp, The Netherlands

declares that the product

PPM 260 Ledbar

conforms to the following product specifications:

EMC: EN 55022: 1987

CISPR 22 (1993) class B

EN 500082-1 (1992)

Supplementary Information:

The products herewith complies with the requirements of the EMC Directive 89/336/EEC (1989) as amended by the CE Marking Directive 93/68/EEC (1993).

D&R Electronica Weesp b.v.
Rijnkade 15 B
1382 GS WEESP
The Netherlands

President of Engineering

PRODUCT SAFETY

This product is manufactured with the highest standards and is double checked in our quality control department for reliability in the "HIGH VOLTAGE" section.

CAUTION

Never remove any panels, or open this equipment. No user serviceable parts inside. Equipment power supply must be grounded at all times. Only use this product as described, in user manual or brochure. Do not operate this equipment in high humidity or expose it to water or other liquids.
Check the AC power supply cable to assure secure contact. Have your equipment checked yearly by a qualified dealer service center. Hazardous electrical shock can be avoided by carefully following the above rules.

EXTRA CAUTION FOR LIVE SOUND

Ground all equipment using the ground pin in the AC power supply cable. Never remove this pin. Ground loops should be eliminated only by use of isolation transformers for all inputs and outputs. Replace any blown fuse with the same type and rating only after equipment has been disconnected from AC power. If problem persists, return equipment to qualified service technician

PLEASE READ THE FOLLOWING INFORMATION

Especially in sound equipment on stage the following information is essential to know. An electrical shock is caused by voltage and current, actually it is the current that causes the shock. In practice the higher the voltage the higher the current will be and the higher the shock. But there is another thing to consider and it is resistance. When the resistance in Ohms is high between two poles, the current will be low and vice versa. All three of these; voltage, current. and resistance are important in determining the effect of an electrical shock.

However, the severity of a shock primarily determined by the amount of current flowing through a person.
A person can feel a shock because the muscles in a body respond to electrical current and because the heart is a muscle it can affect, when the current is high enough.
Current can also be fatal when it causes the chest muscles to contract and stop breathing. At what potential is current dangerous.
Well the first feeling of current is a tingle at 0.001 Amp of current.
The current between 01 Amp and 0.2 Amp is fatal.
Imagine that your home fuses of 20 Amp can handle 200 times more current than is necessary to kill.
How does resistance affect the shock a person feels.
A typical resistance between one hand to the other in "dry" condition could well over 100,000 Ohm.
If you are playing on stage your body is perspiring extensively and your body resistance is lowered by more than 50%. This is a situation in which current can easily flow.
Current will flow when there is a difference in ground potential between equipment on stage and in the P.A. system. Please do check if there is any potential between the housing of the mikes and the guitar synth amps, which will be linked by your body on stage. Imagine, a guitar in your hand and your lips close to the mike! A ground potential difference of above 10 volts is not unusual, in improperly wired buildings it can possibly be as high as 240 volts.

Although removing the ground wire sometimes cures a system hum, it will create a very hazardous situation for the performing musician.

Always earth all your equipment by the grounding pin in your mains plug.
Hum loops should be only cured by proper wiring and isolation input/output transformers.

Replace fuses always with the same type and rating after the equipment has been turned off and unplugged.

If the fuse blows again you have an equipment failure, do not use it again and return it to your dealer for repair.

And last but not least be careful not to touch a person being shocked as you, yourself could also be shocked. Once removed from the shock, have someone send for medical help immediately

Always keep the above mentioned information in mind when using electrically powered equipment.

Dear CLIENT,

We care very much about your opinion of our product, and would very much appreciate if you could complete the following questionnaire, and return it to the address below.

Please use a copy of this form if you do not want to damage your manual.

USER NAME :

ORGANIZATION :

ADDRESS :

TOWN :

POST CODE :

COUNTRY :

EMAIL: info@d-r.nl

PURCHASING DATE :

DEALER :

HOW DID YOU HEAR ABOUT THIS PRODUCT? (please circle)

(Dealer / Advertisement / Exhibition / Other user / Other)

WHAT IS YOUR OPINION OF THE PRICE/QUALITY OF THE "260 PPM" METER? .....

WHAT PRICE WOULD YOU CONSIDER SUITABLE FOR THE "260 PPM"? .....

ANY OTHER SUGGESTIONS? .....

I REQUIRE INFORMATION ABOUT .....

WHAT OTHER EQUIPMENT DO YOU USE? .....

PLEASE SEND/MAIL TO:-

D&R Electronica Weesp bv, Rijnkade 15B, 1382 GS WEESP, The Netherlands FAX: +31 294 416987

260 PPM

SERVICE MANUAL

(ON REQUEST)