



2017



# Operating Manual 900 Hyperion BarMaster



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# Introduction



The Meech BarMaster remote programmer allows you to unlock the full performance of the range Hyperion bars with Integrated Power Supplies (IPS). Whilst the default settings of Hyperion IPS bars are suitable for most applications, this unique device provides adjustment of the output balance and frequency and the clean-pin alert settings. This allows the bar to be setup precisely for the application it is being used on.

Temporarily connected in line with the 24V supply to the bar, the settings are adjusted using simple controls. Once programming is complete, the BarMaster is disconnected. When the bar is re-powered, it operates at the newly programmed settings.

# Unpacking And Inspection

Your Hyperion BarMaster was carefully packed at the factory in a container designed to protect it from accidental damage. Nevertheless, we recommend careful examination of the carton and contents for any damage.

If damage is evident, do not destroy the carton or packing material and immediately notify the carrier of a possible damage claim. Shipping claims must be made by the consignee to the delivering carrier.

## Technical and Construction

Dimensions (W x H)	143 x 81 x 25
Construction	ABS
Cable	2m
Input Voltage	24V
Electrical Connection	4 Pin M8 Connector

## Product Features

Compatibility	The BarMaster can be used to program any IPS bars in the Hyperion range.
2 metre cable	Allows operator to stand a safe distance away from the machine during programming.
Instrument case	Safe, clean storage when not in use

# Connection

The BarMaster is connected in line with the ionising bar's 24V power supply cable. The power cable is connected to the BarMaster and, in turn, its cable is connected to the bar.



**Warning:** It is recommended to turn-off the 24V power supply to the bar and wait a few seconds before disconnecting the power cable from the bar. Failure to do so will not damage the equipment, but may result in a small shock caused by the stored energy in the bar.

Attach the cable on the BarMaster to the M8 connector on the bar, then connect the M8 connector from the power supply to the BarMaster.

Switch on the power supply. After a few seconds, the BarMaster will establish a connection to the bar and display the bars settings and status.

The display on the BarMaster will show data including

Model No and Software version	E.g. 929 V1.42
Serial No	XXXXXX
Frequency	1-20Hz
Balance	20%-80% Positive
Feedback	On/Off
Alarm	20%-90%
Ion Level	0%-99%
Reset Ion Ref	Calibration command.

# Controls

The flashing cursor can be moved to the parameter to be adjusted.

- To scroll through the menu use the up down function.



- To adjust Frequency, Balance, feedback, Alarm levels or to reset the ion reference current use left and right function



- Please note the OK button in the centre of the toggle is redundant and has no function on the BarMaster.



# Adjustments

## Frequency

Your Hyperion bar is set to a default frequency that provides good performance across its operating range. Lower frequencies can assist long-range use. Higher frequencies give better results at short-range.



## Balance

To get faster decay times, it is possible to adjust the output balance. Negative static charges will be neutralised faster if the bar is biased to a positive balance (>50 Pos).

Hi accuracy neutralisation can be required in applications involving electronic circuitry, E.g. RFID tag production. In the case the balance can be adjusted to give the most accurate neutralisation for the target distance.

## Feedback

Feedback is an option on Hyperion bars to achieve automatic control of balance. This setting cannot be changed unless the bar has been Feedback Enabled. Full instructions on the feedback system are supplied with Feedback Enabled bars.

**Unless a remote feedback sensor is connected to the bar, feedback should be OFF.**



## Alarm

This is the level of performance (Ion Level) at which the Clean Pin Alert will be triggered. Typically set at 60% it can be set higher for more critical applications.

## Ion Level

This is an instantaneous measure of the performance of the bar, compared to its performance when new and clean. A low percentage could indicate that the bar needs cleaning.

## Reset Ion Ref.

This function is used to set reference performance level when the bar is clean. It is set by Meech during initial calibration. It should be reset after making changes to either the balance or the frequency of the output.

**Make sure that the bar is clean before resetting the Ion Ref Current.**

# Disconnecting Bar Master

**Warning:** It is recommended to turn-off the 24V power supply to the BarMaster and wait a few seconds before disconnecting the power cable from the bar. Failure to do so will not damage the equipment, but may result in a small shock caused by the stored energy in the bar.

Reconnect the 24V supply cable to the bar and turn the power supply on. The bar will operate at the new settings.

# Repairs And Warranty

The Meech BarMaster is warranted by Meech Static Eliminators Ltd. to the original purchaser against defects in material and workmanship for two years after shipment. Should any malfunction occur, please return the bar directly to Meech Static Eliminators Ltd. or your local Meech Distributor. All products returned to the factory MUST be accompanied by a return authorisation number and must be shipped prepaid. For prompt service, ship the unit to the factory with the return authorisation number shown clearly on the label. Be sure that it is well packed in a sturdy carton with shock absorbing material.

Include a note stating the nature of the problem as specifically as possible, and also include instructions for returning the bar to you. We will pay one-way return shipping costs on any repairs covered under the warranty.

# CE Approval

A CE Declaration of Conformity for this product exists in respect of the Low Voltage Directive:72/23/EEC ("LVD") & Electromagnetic Compatibility Directive: 89/336/EEC ("EMCD")





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