

## Hyperion 960IPS Mid-Range Ionising Bar



**Product Code:** A960

The new Hyperion 960IPS from Meech is a compact pulsed DC ionising bar with integrated high-voltage power supply (IPS). Powered by 24V DC, the 960IPS delivers powerful ionisation for mid-range applications. The 960IPS mid-range bar, has been a very successful replacement for the short to mid-range 929IPS and the mid to long range 971IPS-15kV.

The need for powerful ionisation to cope with modern fast machinery is answered by the Hyperion 960IPS. Compact dimensions of just 30mm x 45mm make it easy to install on printing and converting machinery. The 15KV pulsed DC output gives class-leading performance. The default settings will provide ideal static control on most installations with target distances from 150mm to 450 optimum performance e.g. for improving long-range performance.

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# Product Data Sheet

Published Date: 19.04.2023



## Features & Benefits

<b>15kV Output Voltage</b>	The new 960IPS bar provides an output that is adjustable from 2-15kV with a default setting of +/-12.5kV compared with the 10kV provided by the original 929IPS bar. This 50% increase in power allows the 960IPS to operate at greater distances (up to 450mm).
<b>Low Voltage Wiring</b>	The 960IPS is powered by 24V DC. The connection system is a standard industrial M8 connector. This greatly simplifies installation; avoiding the need to route high voltage cables from a remote high voltage power supply.
<b>Adjustable Output</b>	Performance can be optimised using the optional Hyperion BarMaster programmer or SmartControl: Adjustable balance allows fine control in sensitive applications. Adjustable frequency allows the selection of the optimum frequency for the target distance. For example, slower frequencies give better control over longer distances. Adjustable voltage for improved performance.
<b>Shockless Titanium Emitters</b>	The Titanium emitter pins on the 960IPS are resistively coupled to the high voltage supply. Independent research has shown titanium to be one of the very best materials for emitter pins; with extremely low wear rates. The resistive coupling built into the bar makes the pins shockless to touch, making it safe for operators to handle.
<b>Dual Alarm Lines for Clean Pin and Fault Alerts</b>	The 960IPS adopts the advanced alarm system of the latest Hyperion products. Dual alarm lines tell remote monitoring systems whether the ionising equipment needs routine maintenance or whether there is a more serious system failure. The flexible configuration of the alarm system, allows the alarm lines to be interfaced with PLCs, buzzers and remote lamps.
<b>IP66 Construction</b>	IP66 construction allows the bar to be mounted in areas subject to wash-down or where there is the likelihood of spillages. IP66 provides total dust protection from high-pressure water jets from any direction. Please note that should the bar become wet it must be thoroughly dried before being powered-up.
<b>Clean Pins Alert</b>	The local LED is solid green to indicate that the bar is on, working correctly and giving good ionisation performance. A red flashing LED shows that Meech's Ion Current Monitoring technology has detected that the bar needs cleaning.
<b>Fault Alert</b>	Constant red illumination indicates that a fault has been detected on the high voltage outputs.
<b>Slimlined End Cap Design</b>	The end caps of the 960IPS are slimline, resulting in no dead space. The bar offers full-length ionisation, with the effective length the same as the overall length of the bar.
<b>Divider</b>	The 960IPS needs to be able to operate in dirty, factory environments. To minimise the impact of contamination and maximise the interval between cleaning, the bar features a divider between the positive and negative emitters. This divider, first introduced by Meech on the 976 bar, over 15 years ago, is an essential feature of the bar.
<b>T-Slot</b>	Mounting of the bar is made easy using the T-Slot at the rear of the bar. The M4 T-Bolts used are the same as used on other Meech pulsed DC bars.

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## Technical Characteristics

<b>Output Voltage</b>	Adjustable 2-15kV, Default +/-12.5kVAdjustable via BarMaster or SmartControl
<b>Optimum Operating Range</b>	150 - 450mm
<b>Dimensions (WxH)</b>	30 x 45mm
<b>Maximum Length</b>	3900mm
<b>Weight</b>	0.9kg/metre
<b>Low Voltage Wiring</b>	24V DC Supply - Suits installation on modern machinery
<b>Integrated Power Supply</b>	Removes the need for high voltage wiring
<b>Construction</b>	ABS FR
<b>Mounting</b>	'T' Slot with M4 x 30 studs
<b>Emitters</b>	Sharp titanium pins
<b>Input Current</b>	Max 500mA
<b>Input Voltage</b>	24V DC (21-27V DC)
<b>Clean Pin Alert</b>	0/24V
<b>Fault Signal Alert</b>	0/24V
<b>Output Frequency</b>	Default Setting: 5HzAdjustable (1-20Hz) via BarMaster or SmartControl
<b>Environmental Protection</b>	IP66
<b>Max Ambient Temperature</b>	60 °C
<b>Certifications</b>	CE, UL.
<b>Output Balance</b>	Default: 54% Positive, 46% Negative (Adjustable with BarMaster).

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**Meech**  
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Meech International is a trading style of Meech Static Eliminators Ltd

TITLE: 960 Bar

DRAWING NO: ADR: \_\_\_\_\_

MATERIAL: LG ABS AF928 (Cool Grey) & PP ABS (Green Partlow 305)

FINISH: Smooth

TOLERANCE UNLESS OTHERWISE SPECIFIED:  
MEASURED IN A MIND: ± 0.1mm  
DIMENSIONS IN PARENTHESIS: ± 0.1mm  
ANGLE: ± 0.5°

DIMENSIONS IN MM DO NOT SCALE  
CRITICAL TO FUNCTION (CTF)  
DIMENSIONS AS MARKED

PROJECTION	SHEET	SCALE
1st	A1	MTS

DATE: 05/09/2019

REVISION:

SHEET: 2/3

DETAIL: Mewling

DRAWN BY: Samir Dawid

CHECKED BY: Dawid Myle

SIGNED OFF BY: Dawid Myle

**STANDARD LENGTHS**

TOTAL LENGTH	NOMINAL ACTIVE LENGTH	EMITTER PINS	NO. MOUNTING STUDS
400	400	8	2
500	500	10	2
600	600	12	2
700	700	14	2
800	800	16	2
900	900	18	2
1000	1000	20	3
1100	1100	22	3
1200	1200	24	3
1300	1300	26	3
1400	1400	28	3
1500	1500	30	4
1600	1600	32	4
1700	1700	34	4
1800	1800	36	4
1900	1900	38	4
2000	2000	40	5
2100	2100	42	5
2200	2200	44	5
2300	2300	46	5

**STANDARD LENGTHS**

TOTAL LENGTH	NOMINAL ACTIVE LENGTH	EMITTER PINS	NO. MOUNTING STUDS
2500	2500	50	6
2600	2600	52	6
2700	2700	54	6
2800	2800	56	6
2900	2900	58	6
3000	3000	60	7
3100	3100	62	7
3200	3200	64	7
3300	3300	66	7
3400	3400	68	7
3500	3500	70	8
3600	3600	72	8
3700	3700	74	8
3800	3800	76	8
3900	3900	78	8

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