

# ITE

MC Power

# STAGE



ISG123-P; ISG23-P

## Technical Datasheet

The Interton STAGE MC Power is a new, trimmer-based product supported by the latest digital technology. The modern digital benefits of Stage combined with the traditional trimmer fitting makes this product contemporary, reliable and easy to use. And no computer is needed – you will be able to instantaneously bring your customers to the new STAGE of digital technology by simple adjustment of the trimmers.

### Standard Features

- Trimmer-based product, supported by 100% digital signal processing
- 4 channel swift compression (WDRC)
- Noise reduction in all four channels
- Expansion
- Delayed activation
- Audible tones:
  - low-battery warning
  - program change
  - delayed activation notification
- On/Off via the battery door

### Colours

Beige, Tan, Brown

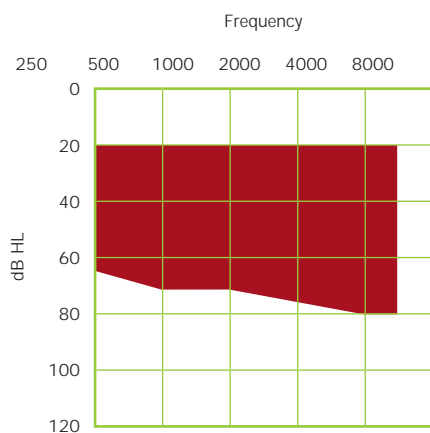
### Options

- Push button
- Programs:
  - Basic
  - Noise
- Retrieval line

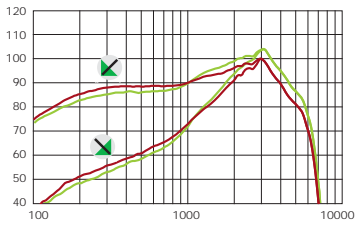
### Trimmers

- Fitting is possible through four trimmers:
- Low Frequency Cut (Green)
  - Maximum Power Output (Black)
  - High Frequency Cut (Yellow)
  - Gain Control (Red)
- One of these trimmers can be chosen for Stage MC:
- ISG123-P has Gain Control
  - ISG23-P is for other trimmer combinations

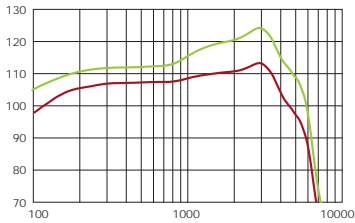
### Fitting range



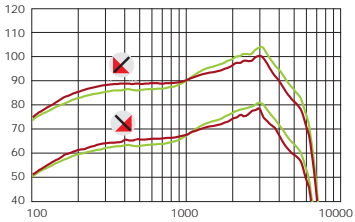
Basic frequency response and effect of Low Frequency Cut



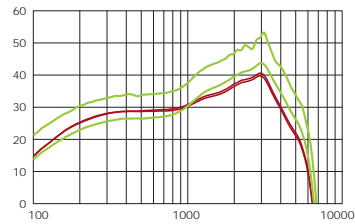
Maximum Output (OSPL90)



Basic frequency response and effect of Gain Control



Full-on and Reference Test Gain



Legend: O.E.S. (green line), 2cc (red line)

Notes:

O.E.S. = Occluded Ear Simulator  
 2cc = 2 cm<sup>3</sup> coupler  
 Pi = Acoustic input signal

Basic settings:

Full-on Gain, Reference Test Gain  
 MPO = Maximum Power Output  
 Maximum Band Width

Measured according IEC 118-0 1983, amendment 1994; at 1.3 V and 23°C on O.E.S. according to IEC711 1981, resp on 2cc according to IEC60118-7 2nd edition 2005 (DIN average calculated at 500 Hz, 1000 Hz and 2000 Hz; HFA average calculated at 1000 Hz, 1600 Hz and 2500 Hz; 0 dB SPL sound pressure equals 20µPa). All measurements without DSP features activated unless indicated otherwise.

## Electroacoustic Performance

# MC Power STAGE

	IEC 118-7 2cc Coupler	IEC 118-0 Ear Simulator	ANSI S3.22
<b>Acoustic Gain</b> at 1600 Hz (dB) (IEC) Peak value (dB)	35 dB 40 dB	39 dB 52 dB	- 40 dB
<b>Saturation Sound Pressure Level SSPL</b> at 1600 Hz (dB) (IEC) Peak value (dB SPL)	110 dB SPL 113 dB SPL	116 dB SPL 125 dB SPL	- 113 dB SPL
<b>ANSI-HFA</b> Acoustic gain (dB) Saturation sound pressure level (dB SPL)	- -	- -	35 dB 110 dB SPL
Low-frequency limit (Hz) High-frequency limit (Hz)	100 5810	170 5690	100 5810
<b>Harmonic Distortion (THD)</b> at 500 Hz (%) at 800 Hz (%) at 1600 Hz (%)	1.4 % 0.9 % 1.3 %	2.4 % 1.6 % 1.6 %	1.4 % 0.9 % 1.3 %
<b>Equivalent Input Noise (dB)</b>	17 dB SPL	17 dB SPL	17 dB SPL
<b>Power Consumption (mA)</b>	0.9	0.9	0.9
<b>Battery Size</b>	10	10	10
<b>Battery Life</b>	100 hours	100 hours	100 hours
<b>Reference Test Gain</b>	34 dB	36 dB	34 dB

## Digital Trimmer Reference

### Low Frequency Cut Variable up to -30 dB at 500 Hz

Controls the low frequency amplification of the instrument. The control is active in the frequency area between 100 Hz - 3000 Hz. Low frequency sounds will be less amplified by turning the trimmer clockwise, and provide less low frequency gain.



If the sound is too „boomy“, turn the low frequency trimmer clockwise.

### High Frequency Cut Variable up to -20 dB at 4000 Hz

This control reduces the amplification in the high frequencies. This trimmer can be used for feedback control. High frequency sounds will be less amplified by turning the trimmer clockwise.



If the sound is too „tinny“, turn the MPO and high frequency trimmers clockwise.

### MPO Control Output varies up to -24 dB



### Gain Control Variable up to -25 dB

