



PENTON

ハイ・インピーダンス アッテネーター

2012 年
2 月 1 日

ハイ・インピーダンス用アッテネーターは数々の製品がありますが、減衰ステップが 6 dB の製品がほとんどで、もっと細かい調整をしたい場合に適切な製品がありませんでした。トータル減衰量も 3 ステップ程度しかなく、多くのハイ・インピーダンス仕様のスピーカーシステムを使って細かく調整をすることができませんでした。

PENTON 社の VCT シリーズ・アッテネーターは、【調整ステップが 3 dB】、【トータル減衰量が 30 dB】という仕様を持った製品で、ハイ・インピーダンスのシステムをより細かく調整したい設備にはうってつけの製品です。100 ボルトラインで 25 ワット(70.7 ボルトでは 12 ワット)の製品である **VCT25** と 80 ワット(70.7 ボルトラインでは 40 ワット)の製品である **VCT80** の二種類の製品があります。アッテネーターを使うことによる挿入損失も **VCT25** が 0.4 dB、**VCT80** が 0.6 dB と非常に低く、周波数特性も **VCT25** が 40-20,000 Hz、**VCT80** が 20-20,000 Hz とハイ・インピーダンスの設備では驚異的な仕様を備えています。

ともに 100 ボルトと 70.7 ボルトのハイ・インピーダンス設備に対応ができます。

注意:

1. 減衰量を大きくすると低域の周波数特性が変化してクリップを起すことがあります。データシートに記載された周波数特性に注意してお使いください。
2. 30 dB 減衰の位置にストッパーがありません。直接 0 dB に変化しますので注意してください。

製品名	仕様	標準小売価格	
		消費税なし	消費税込み
VCT25	25 W (100V ライン)、12 W (70.7 ボルトライン) 3 dB ステップ、最大 30 W 減衰、挿入損失 0.4 dB	¥11,800	¥12,300
VCT80	80W (100V ライン)、40 W (70.7 ボルトライン) 3 dB ステップ、最大 30 W 減衰、挿入損失 0.6dB	¥11,800	¥12,300



VCT25



VCT80

LOUDSPEAKER VOLUME CONTROL



➤ **VCT25**

TECHNICAL SPECIFICATIONS

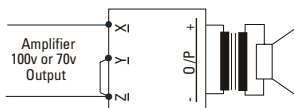
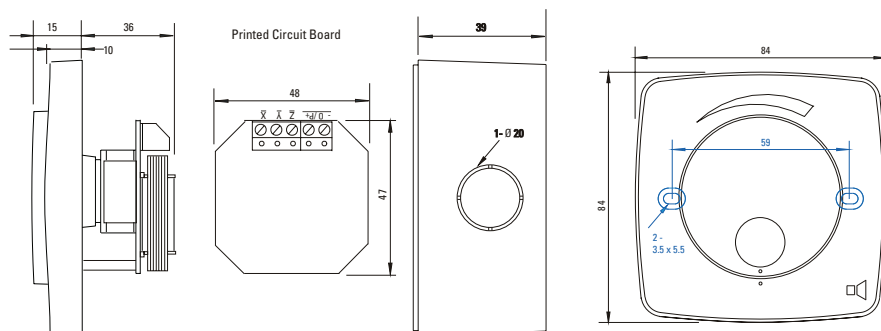
Rated power 100 volt/70.7 volt line, Watts	25 /12
Transformer output steps@ 100 volt line, Volts	100/70.7/50/35.36/25/17.68/ 12.50/8.84/6.25/4.42/3.12/OFF
Transformer output steps@ 70.7 volt line, Volts	70.7/50/35.36/25/17.68/12.50/ 8.84/6.25/4.42/3.12/2.21/OFF
Attenuation Per Step, dB	3
Total Attenuation, dB	30
Attenuation Positions	10 plus OFF
Insertion Loss, dB	0.4
Effective frequency range @1k Hz-1dB, Hz	40-20,000
Dimensions, front & depth, mm	84 x 84 x 54
Net weight, Kgs	Flush: 0.15, Surface: 0.20
Colour/Finish	White
Material	ABS Moulded
Mounting	Flush and Surface

VCT25

LOUDSPEAKER VOLUME CONTROL

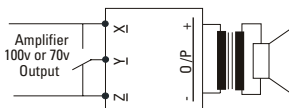
flush and surface mount
side view unit: **mm**

front view
unit: **mm**



Standard connection

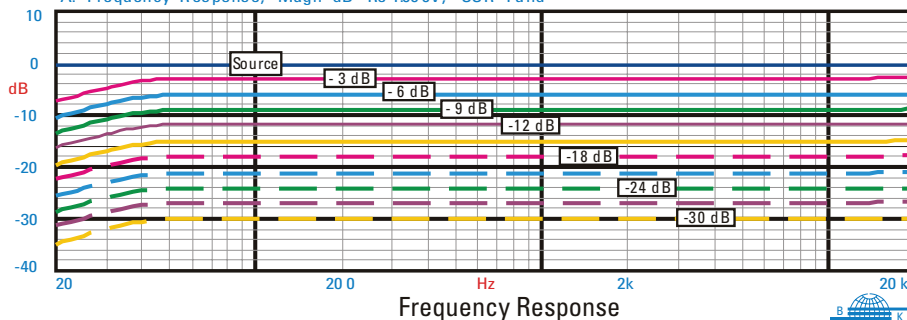
1. Short "Y" and "Z".
2. Connect as shown on the diagram.



Tri-wire restoration via remote relay

1. Connect amplifier output to "X", "Y" and "Z" as shown on the diagram.

A: Frequency Response, Magn dB Re 1.000V, SSR Fund



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LOUDSPEAKER VOLUME CONTROL



➤ **VCT25R**

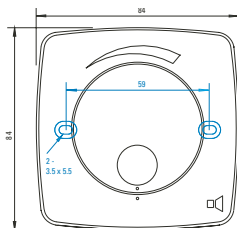
TECHNICAL SPECIFICATIONS

Rated power 100 volt/70.7 volt line, Watts	25 / 12
Transformer output steps@ 100 volt line, Volts	100/70.7/50/35.36/25/17.68/ 12.50/8.84/6.25/4.42/3.12/OFF
Transformer output steps@ 70.7 volt line, Volts	70.7/50/35.36/25/17.68/12.50/ 8.84/6.25/4.42/3.12/2.21/OFF
Attenuation Per Step, dB	3
Total Attenuation, dB	30
Attenuation Positions	10 plus OFF
Insertion Loss, dB	0.4
Effective frequency range @1k Hz-1dB, Hz	40-20,000
Dimensions, front & depth, mm	84x84x54
Net weight, Kgs	Flush: 0.17, Surface: 0.22
Colour/Finish	White
Material	ABS Moulded
Mounting	Flush and Surface

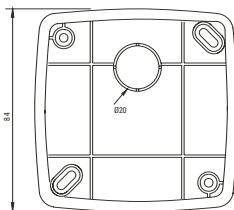
VCT25R

LOUDSPEAKER VOLUME CONTROL

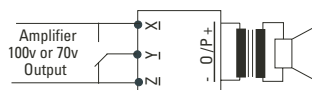
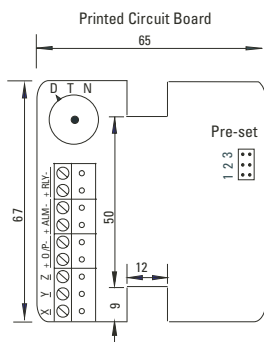
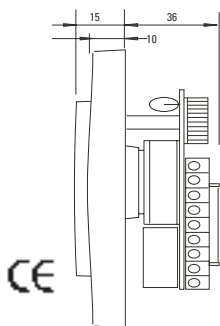
front view
unit: mm



surface mount box rear view
unit: mm

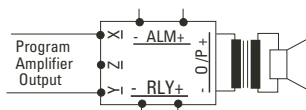


side view
unit: mm



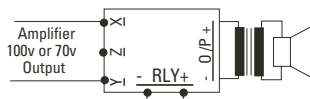
Tri-wire restoration via remote relay

1. Set function selector to "T".
2. Connect amplifier output to "X", "Z" and "Y" as shown on the diagram.



Dual amplifier sound restoration

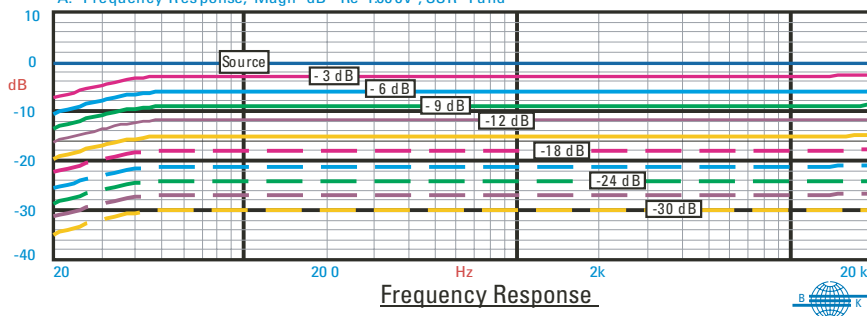
1. Set function selector to "D".
2. Connect program amplifier output to "X" and "Y", paging amplifier to "Z" - ALM+, 24 Vdc to "RLY+" as shown on the diagram.



Two wire relay controlled restoration

1. Set function selector to "N", pre-set restoration sound level (1=0, 2=-3, 3=-6dB).
2. Connect amplifier output to "X" and "Y", 24 Vdc to "RLY+" as shown on the diagram.

A: Frequency Response, Magn dB Re 1.000V, SSR Fund



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LOUDSPEAKER VOLUME CONTROL



➤ **VCT80**

TECHNICAL SPECIFICATIONS

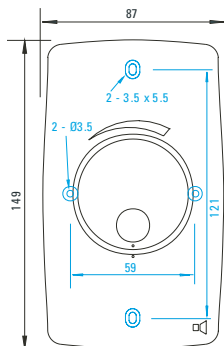
Rated power 100 volt/70.7 volt line, Watts	80 /40
Transformer output steps@ 100 volt line, Volts	100/70.7/50/35.36/25/17.68/ 12.50/8.84/6.25/4.42/3.12/OFF
Transformer output steps@ 70.7 volt line, Volts	70.7/50/35.36/25/17.68/12.50/ 8.84/6.25/4.42/3.12/2.21/OFF
Attenuation Per Step, dB	3
Total Attenuation, dB	30
Attenuation Positions	10 plus OFF
Insertion Loss, dB	0.6
Effective frequency range @1k Hz-1dB, Hz	20-20,000
Dimensions, front & depth, mm	149 x 87 x 61
Net weight, Kgs	Flush: 0.33, Surface: 0.42
Colour/Finish	White
Material	ABS Moulded
Mounting	Flush and Surface

EASE, CATT, ULYSSES and Architectural specifications are supplied on the disc inserted at the back of this folder
 Manufacturer reserves the right to alter specifications without notice – March 2007

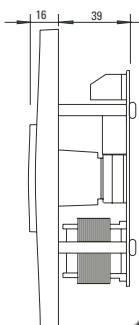
VCT80

LOUDSPEAKER VOLUME CONTROL

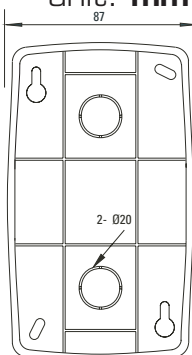
front view unit: mm



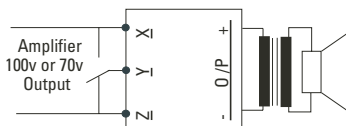
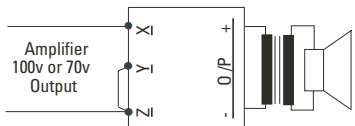
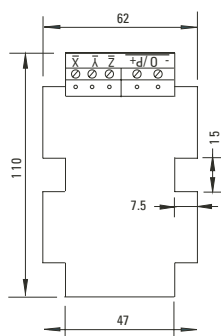
side view unit: mm



rear view unit: mm



Printed Circuit Board



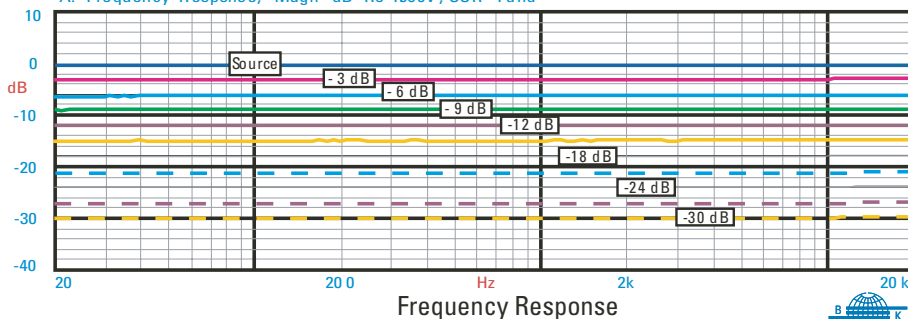
Standard connection

1. Short "Y" and "Z".
2. Connect as shown on the diagram.

Tri-wire restoration via remote relay

1. Connect amplifier output to "X", "Z" and "Y" as shown on the diagram.

A: Frequency Response, Magn dB Re 1000V, SSR Fund



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LOUDSPEAKER VOLUME CONTROL



➤ **VCT80R**

TECHNICAL SPECIFICATIONS

Rated power 100 volt/70.7 volt line, Watts	80 / 40
Transformer output steps@ 100 volt line, Volts	100/70.7/50/35.36/25/17.68/ 12.50/8.84/6.25/4.42/3.12/OFF
Transformer output steps@ 70.7 volt line, Volts	70.7/50/35.36/25/17.68/12.50/ 8.84/6.25/4.42/3.12/2.21/OFF
Attenuation Per Step, dB	3
Total Attenuation, dB	30
Attenuation Positions	10 plus OFF
Insertion Loss, dB	0.6
Effective frequency range @1k Hz-1dB, Hz	20-20,000
Dimensions, front & depth, mm	149x87x61
Net weight, Kgs	Flush: 0.35, Surface: 0.44
Colour/Finish	White
Material	ABS Moulded
Mounting	Flush and Surface

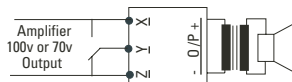
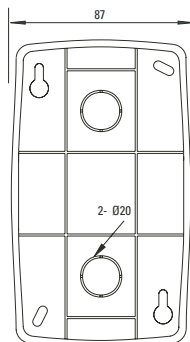
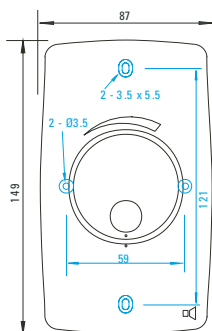
VCT80R

LOUDSPEAKER VOLUME CONTROL

front view rear view

unit: mm

unit: mm



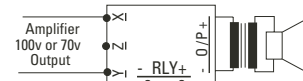
Tri-wire restoration via remote relay

1. Set function selector to "T".
2. Connect amplifier output to "X", "Z" and "Y" as shown on the diagram.



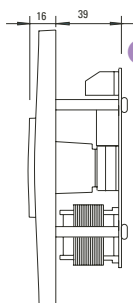
Dual amplifier sound restoration

1. Set function selector to "D".
2. Connect program amplifier output to "X" and "Y", paging amplifier to "Z" - ALM+, 24 Vdc to "Z" - RLY+" as shown on the diagram.

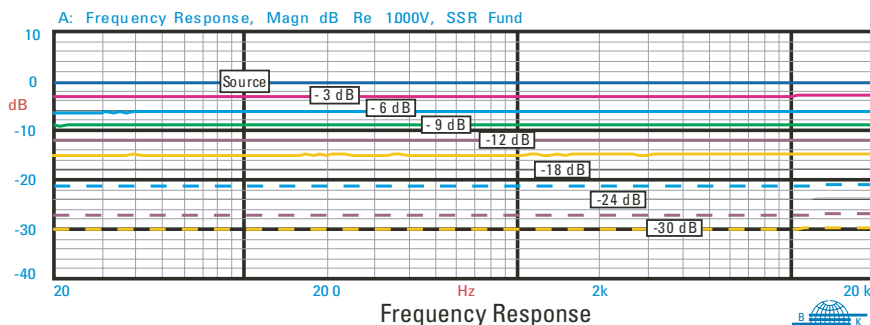
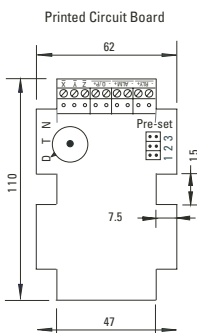


Two wire relay controlled restoration

1. Set function selector to "N", pre-set restoration sound level (1=0, 2=-3, 3=-6dB).
2. Connect amplifier output to "X" and "Y", 24 Vdc to "Z" - RLY+" as shown on the diagram.



side view
unit :
mm



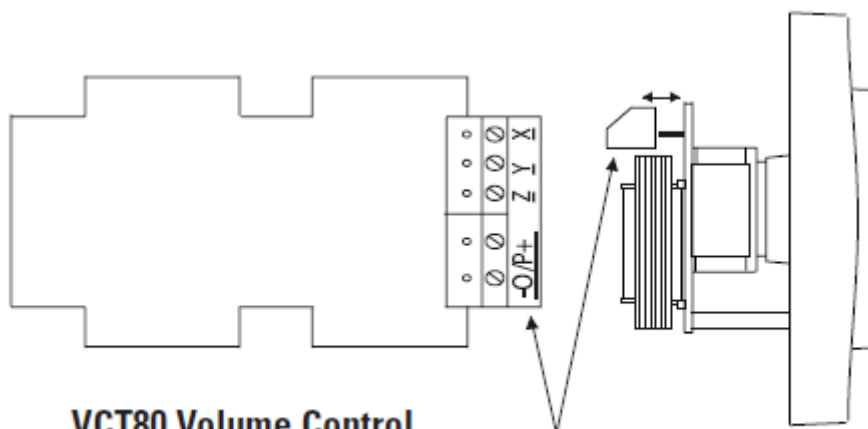
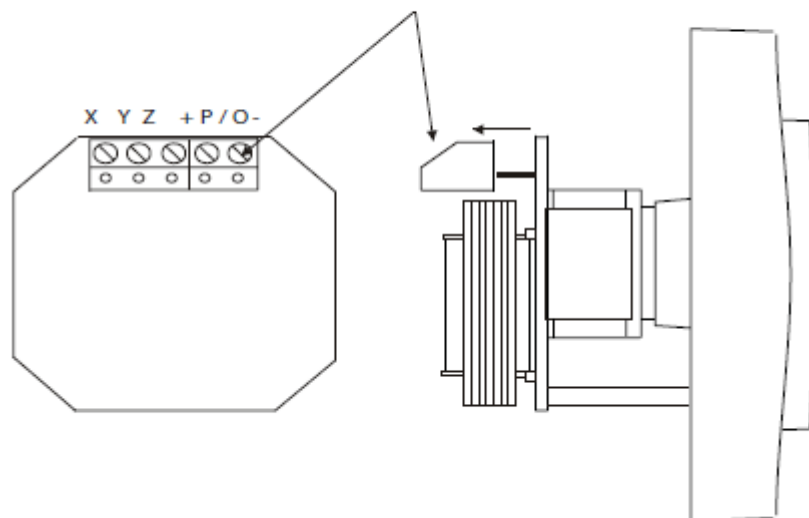
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VCT25 Volume Control Remove Terminal strip to Wire



VCT80 Volume Control Remove Terminal Strip to Wire

TRI-WIRE RESTORATION VIA REMOTE RELAY

1. Short "Y" and "Z".
2. Connect as shown on the diagram

