

# SIGNAL CONVERTER (D.C. /A.C. TYPE)

## Introduction:

MVSC range of signal converters( volt-volt/volt-current/current-current/current - volt are available in 16 different regular models apart from tailor made solutions virtually covering all industrial and research applications meeting all electrical, thermal, mechanical, and environmental specifications. These converters are first choice for signal conversion of volt/current/power or related inferential parameters [ D.C./A.C.] at generation, transmission/distribution, electrical engineering industries, defense, electrical/mechanical m/c testing instrument, industrial electronics, railway, and avionics and many research and development activities. These meters are compatible to any standard sensor out put and convert with very high degree of accuracy/repeatability/reliability.

## Benefits:

- Simple installation and operational compatibility.
- Consistent performance over large temperature range (70°C)
- Scaled directly in Volt/Ampere with repeatable accuracy.
- Auto/manual zero offset without drift.
- All standards din sizes and custom sizes.



**MVPM-00099.9**

**VOLT-VOLT SIGNAL CONVERTER (A.C. /D.C.)**



**MASCVCC- 00999.9**

**VOLT-CURRENT SIGNAL CONVERTER (A.C. /D.C.)**



**MASC-99999.9**

Model	Volts Signal a.c. Milli volts	Volt output	Zin/Zout	k.hz	Model	Volts Signal a.c. Milli volts	Volt output	Zin/Zout	k.hz
MVSC-00099.9	75.0/option	2.0/5.0/12.0	<2.0Mohm/ >.1 ohm	0-50	MASC-00099.9	75.0/option	4-20 /option	<2.0Mohm/ <2.0Mohm	0-50
MVSC-00999.9	75.0/option	100.0	<2.0Mohm/ >.1 ohm	0-50	MASC-00999.9	75.0/option	4-20 /option	<2.0Mohm/ <2.0Mohm	0-50
MVSC-09999.9	75.0/option	200.0	<2.0Mohm/ >.1 ohm	0-50	MASC-09999.9	75.0/option	4-20 /option	<2.0Mohm/ <2.0Mohm	0-50
MVSC-99999.9	75.0/option	500.0	<2.0Mohm/ >.1 ohm	0-50	MASC-99999.9	75.0/option	4-20 /option	<2.0Mohm/ <2.0Mohm	0-50
MVSC-99999.9	75.0/option	1000.0	<2.0Mohm/ >.1 ohm	0-50	MASC-99999.9	75.0/option	4-20 /option	<2.0Mohm/ <2.0Mohm	0-50
MVSC-99999.9	75.0/option	2000.0	<2.0Mohm/ >.1 ohm	0-50	MASC-99999.9	75.0/option	4-20 /option	<2.0Mohm/ <2.0Mohm	0-50

## General electrical/mechanical specifications:

Operating voltage: 220 volts A.C.(50-20,000 Hz )/ 12 volts D.C.  
 Input Volt/Current range: Volt: 10.0/500/75.0/2000.0/5000.0 mili-volt)  
 Current: 4-20 m.a./option  
 Output volt/current: Volt :10.0/500/75.0/2000.0/5000.0 mili-volt)  
 Current: 4-20 m.a./option

Burdon: 5/10/50 V.A.  
 Permissible harmonic: upto 33% of principle harmonic  
 Signal Frequency: 0.0-20,000 Hz  
 Zin: < 2.0 mega ohm –volt, >0.1 ohm-current  
 Zout: < 2.0 mega ohm –current, >0.1 ohm-volt  
 Repeatability: 100 of reading  
 Resolution:100%  
 Span:+/-20%  
 Filter low pass/high pass  
 Offset: 100 count  
 Accuracy: 0.5/1.0/2.0 % reading  
 Control: two set point control( low/high)  
 Size: 48x48/48x96/96x96/192x96

**NOTES:**  
 The numeral after product code indicates the ( volt/ampere) range and last digit corresponds to size of panel (48x48-1, 48x96-2, 96x96-3, 96x192-4 As for example, MVSC-999991 corresponds to 99999 volts (max) and panel body is ceramic coated mild steel.



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