






- HIGH ACCURACY 0.05% 
- 3 PORT GALVANIC ISOLATION 
- DIN RAIL OR SURFACE MOUNT 
- USER SELECTABLE INPUT AND OUTPUT 
- AC OR DC POWERED 



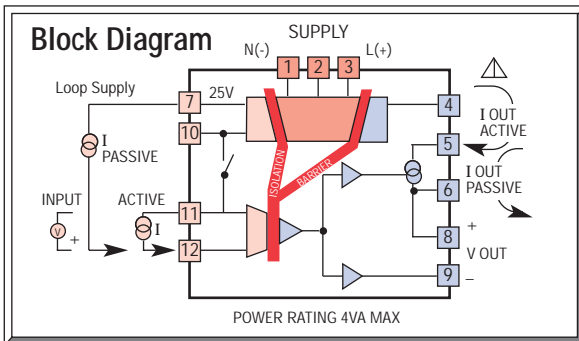
LINE POWERED DC - DC ISOLATOR/CONVERTER SEM1100

INTRODUCTION

The **SEM1100** is an isolating converter that accepts most common high level process signals (current and voltage), isolates them electrically and physically, and converts them to another process signal. It is also possible to have voltage and current outputs simultaneously from a single input.

The isolator is available in AC and DC powered versions, both generating loop excitation for input and output loops at the same time.

Zero and span adjustment potentiometers are conveniently situated on the front panel together with a power ON LED. Configuration (factory set if specified) can easily be changed by means of internal switches and the use of suitable equipment.



APPROVALS

Designed and manufactured under a Quality Management System to BS.EN. ISO 9001.

EMC Emissions	BS EN 50081
Susceptibility	BS EN 50082
Electrical Safety	UL 508 BS EN 61010-1

MECHANICAL

Mounting	DIN rail or Surface Mount
Ambient	32-122°F; 10-95% RH non-condensing
Connections	Captive terminal screws
Cable size	12 AWG Solid/14 AWG Stranded
Flammability	UL94: V-0; VDE 0304 STEP 11b

SPECIFICATION @ 68°F

INPUT

Current 4-20, 0-20mA Active or Passive (40mA max)
Voltage 0-100mV, 0-1, 0-5, 0-10V.
 or 20-100mV, 0.2-1, 1-5, 2-10V (20V max)

Selection Internal switches

Impedance Voltage > 1M ohm
 Current < 50 ohm

Protection Reverse connection / over voltage

Loop Supply 25V @ 25mA Nominal (available for input transmitter 27 V max)

OUTPUT

Current₁ 4-20, 0-20mA Active or Passive
Voltage₁ 0-1, 0-5, 0-10 Volts2
 0.2-1, 1-5, 2-10 Volts3

Selection Internal switches

Load Current 0 to 1 K ohm
 Voltage Max current 5 mA

Linearity 0.05% FRO

Stability 100 ppm/°F

Notes

1. Current and voltage outputs are not isolated from each other
2. Available simultaneously with 0-20mA output
3. Available simultaneously with 4-20mA output

GENERAL SPECIFICATION

Supply 90-253 V AC 50/60 Hz or
 20-35 V DC

Power Consumption 4 Watt Max

Indication Power on LED

Response time < 100mS for 70% of final reading.

Protection Internal Fuse 500mA (T)

Isolation Input/Output 500 V DC (flash tested @ 1kV)

Supply Flash tested @ 3kV



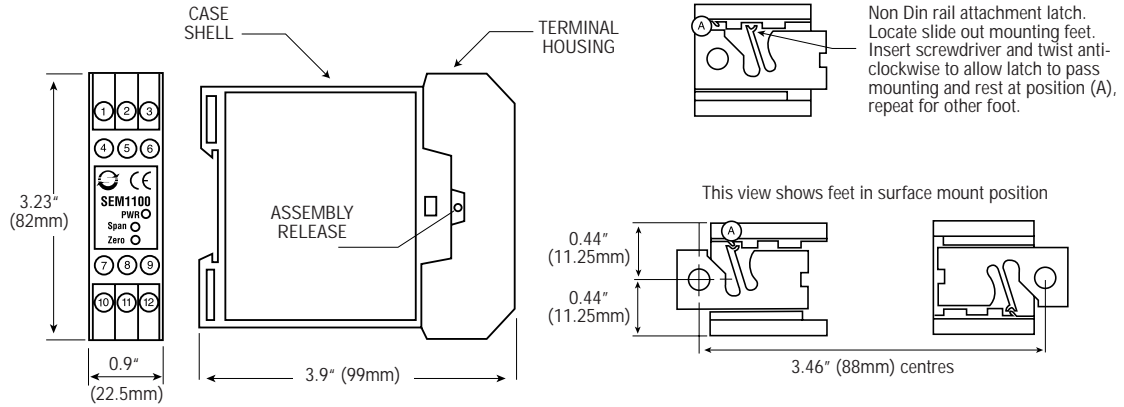
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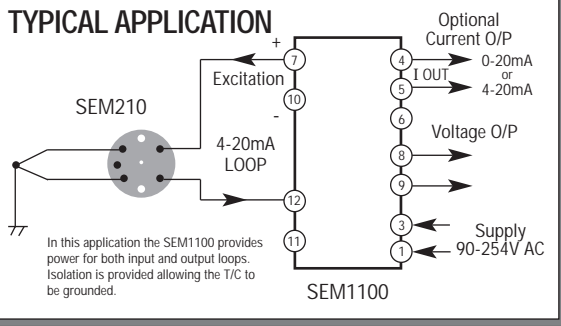


SEM 1100 6.02/PDF

MECHANICAL DETAILS weight 4.5oz (125g)



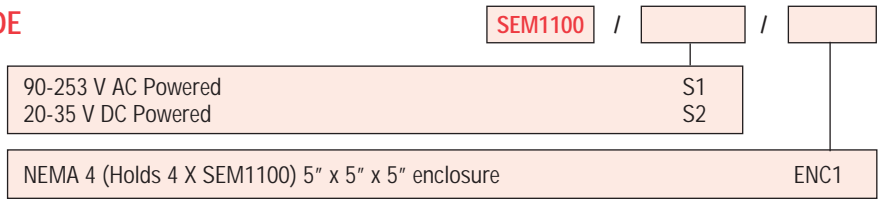
TYPICAL APPLICATION



CONFIG. RANGES AVAILABLE

INPUT		OUTPUT	
4-20mA Passive		VOLTAGE	CURRENT
4-20mA Active		0.0-1V	0-20mA
0-20mA Passive		0.2-1V	4-20mA
0-20mA Active		0.0-5V	0-20mA
0-100mV		1-5V	4-20mA
20-100mV		0-10V	0-20mA
0.0-1V		2-10V	4-20mA
0.2-1V			
0.0-5V			
1-5V		Default range:-	
0-10V		4-20mA Input	
2-10V		Output 4-20mA or 1-5V	

ORDER CODE



LOCAL REPRESENTATION



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