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SEM1000 LOOP ISOLATOR

>	Loop Powered
>	(4 to 20) mA Output
>	Galvanic Isolation 500 V DC Flash Tested 1 KV
>	High Accuracy 0.05%
>	12.5 mm Wide
>	10 YEAR WARRANTY



INTRODUCTION

The SEM1000 isolator is designed to be series connected into a new or existing (4 to 20) mA current loop and provide an isolated (4 to 20) mA signal capable of driving into 500 Ω maximum load. The output is powered from the input loop.

This isolator requires no user adjustment during commissioning. Minor adjustments can be made to the calibration of the device by means of the two front panel accessible calibration potentiometers.

Incorrect connection in the loop will not damage the device as long as the specified maximum currents/voltages are not exceeded.

SPECIFICATIONS @ 20 °C

INPUT	Type Range	Current input 2 wire Loop powered (4 to 20) mA (30 mA MAX)
	Protection	Reverse connection
	FIOLECTION	Reverse connection
	Voltage Drop	5.0 V typical, 5.5 V Maximum
		(Plus output load) 5.5 + (load * 0.02)
	Max Loop Supply	35 Volts
OUTPUT	Туре	(4 to 20) mA source (Powered from
		input)
	Load	0 to 500 R
		(o/c limits at approximately 15 V)

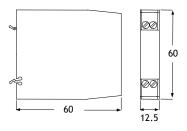
GENERAL SPECIFICATION

Isolation	500 V DC (flash tested @ 1 kV) (Isolation method, opto coupler / transformer)
Electrical Safety	BS EN61010-1 POLLUTION DEGREE 2; INSTALLATION CAT II ; CLASS I
Ambient	(0 to 70) °C ; (10 to 95) % RH non condensing
Accuracy	0.05 % full range output
Stability	0.01 % / ℃
Response Time	Less than 100 mS to reach 63 % of final value.
EMC Tested to	BS EN 61326
Adjustments	Zero and Span Adjustment

MECHANICAL DETAILS

Connection Cable Size Case Material Flammability Dimensions Mounting Captive clamp screws Maximum 4 mm sq solid / 2.5 mm sq stranded Grey Polyamide To UL94-VO VDE 0304 Part 3, Level IIIA (60 x 60 x 12.5) mm (67.5 above rail) Snap on "top hat" rail (DIN EN 50022-35)

(All dimensions in mm)

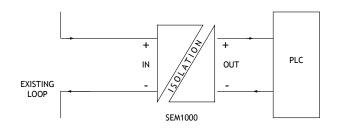


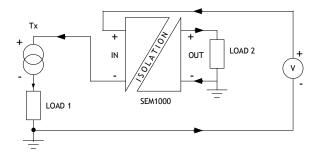


PROCESS SIGNAL ISOLATORS

APPLICATIONS

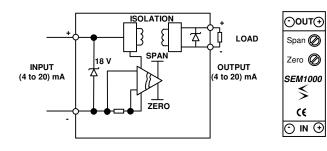
SEM1000





SEM1000

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