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



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 300 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.

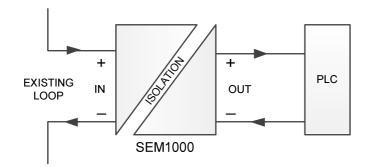
SPECIFICATIONS @ 20 °C **MECHANICAL DETAILS** INPUT Current input 2 wire Loop powered Type (4 to 20) mA (30 mA MAX) Range Connection Captive clamp screws Protection Maximum 4 mm sq solid / 2.5 mm sq stranded **Reverse connection** Cable Size Voltage Drop 5.0 V typical, 5.5 V Maximum Case Material Grey Polyamide (Plus output load) 5.5 + (load * 0.02) To UL94-VO VDE 0304 Part 3, Level IIIA Flammability Max Loop Supply 35 Volts Dimensions (60 x 60 x 12.5) mm (67.5 above rail) OUTPUT Туре (4 to 20) mA source (Powered from Mounting Snap on "top hat" rail (DIN EN 50022-35) input) 0 to 300 R Load (Open circuit limits at approximately 15 V) (All dimensions in mm) GENERAL SPECIFICATION DØ 500 V DC (flash tested @ 1 kV) Isolation (Isolation method, opto coupler / transformer) BS EN61010-1 POLLUTION DEGREE 2; **Electrical Safety** 60 INSTALLATION CAT II ; CLASS I Ambient (0 to 70) °C ; (10 to 95) % RH non condensing 0.05 % full range output Accuracy 0.01 % / °C Stability Response Time Less than 100 mS to reach 63 % of final value. 60 EMC Tested to BS EN 61326 12.5 Adjustments Zero and Span Adjustment



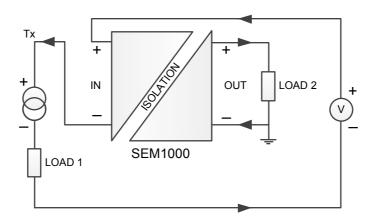
PROCESS SIGNAL ISOLATORS

APPLICATIONS

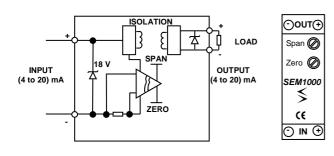
SEM1000

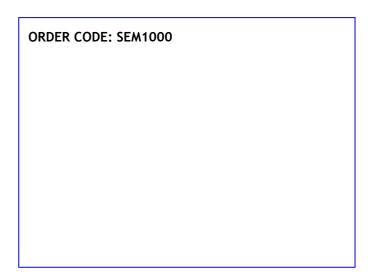


SEM1000



SCHEMATIC





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