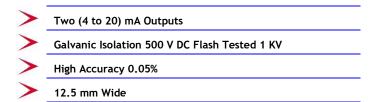
PROCESS SIGNAL ISOLATORS

SEM1200 LOOP SPLITTER





INTRODUCTION

The SEM 1200 isolator is a dual output isolator, providing two separate isolated (4 to 20) mA current signals from a primary loop. The output loops must be powered externally. This isolator requires no user adjustment during commissioning, apart from an initial test, to ensure it operates correctly over its full working range. 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 Current input 2 wire Loop powered **TYPE**

(4 to 20) mA (30 mA MAX) **RANGE** PROTECTION Reverse connection **VOLTAGE DROP** 5.0 V Maximum

OUTPUT 1 & OUTPUT 2 @ 15 V dc

2 Wire current sink (4 to 20) mA LOOP VOLTAGE (5 to 32) V d.c. (reverse protected) *

Load = 900 ohm @ Vs = 24 V Loop volt drop = 5 V

Load = 1200 ohm @ Vs 30 V

Loop must be > 250 R for ambients > 50 °C

GENERAL SPECIFICATION

ISOLATION 500 V DC (flash tested @ 1 kV) between each

port (Isolation method, opto coupler /

transformer)

ENVIRONMENT BS FN61010-1 POLLUTION DEGREE 2:

INSTALLATION CAT II; CLASS I

AMBIENT (0 to 70) °C; (10-95) % RH non condensing **ACCURACY** $\pm 0.05\%$ (± 0.008 mA) of full range output

STABILITY 0.01 % / °C

Less than 100 mS to reach 70 % of final value. RESPONSE TIME

EMC Tested to BS EN 61326

ADJUSTMENT Front Entry Fine Zero and Span Adjustment for

each channel

MECHANICAL DETAILS

CONNECTION Captive clamp screws

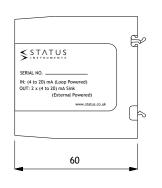
Maximum 4 mm sq solid / 2.5 mm sq stranded CABLE SIZE CASE MATERIAL

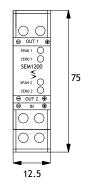
Grey Polyamide

FLAMMABILITY To UL94-VO VDE 0304 Part 3, Level IIIA **DIMENSIONS** (60 x 75 x 12.5) mm (67.5 above rail)

Snap on "top hat" rail (DIN EN 50022-35) MOUNTING

(All dimensions in mm)

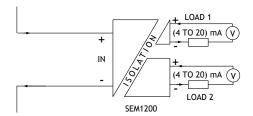


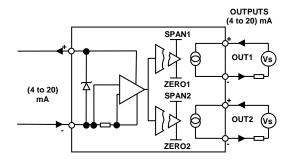




PROCESS SIGNAL ISOLATORS

SCHEMATIC







ORDER CODE: SEM1200



Tel: (800) 700-3272 Fax: (800) 700-5468 Email: sales@statinst.com Website: www.statinst.com D2438-01-04 CN5219 SEM1200 Data Sheet

