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LOOP POWERED TRIP AMPLIFIERS

SEM1401 AND SEM1402

>	10 YEAR WARRANTY
>	LOOP POWERED
>	SMALL SIZE/HIGH PACKING DENSITY
>	MAINS RATED RELAYS
>	SINGLE OR DUAL TRIP
>	TRIP STATE LED INDICATION
>	ACTIVE HIGH OR LOW



INTRODUCTION

The SEM1401 and SEM1402 are loop powered trip amplifiers designed to accept a (4 to 20) mA signal from a transmitter and to provide a single trip output (SEM1401) or two individual trip outputs (SEM1402) sharing the same common. Utilizing the loop power means that no separate supply is required to power the trip alarms with resulting cost reductions and simplified wiring.

Their small size and the mains line relay contacts make them the ideal choice for many trip alarm applications.

SPECIFICATIONS @ 20 °C

INPUT

Туре	Two wire (4 to 20) mA, (50 mA maximum)
Protection	Reverse connection protected
Loop Drop	5 V maximum
OUTPUT	
Alarm	HIGH or LOW Active (switch selected)
Contact(s)	SEM1401 single relay with N.O. and N.C. contacts. SEM1402 two single pole relays with N.O. contacts sharing a common connection
Rating	Resistive load 2 A @ 250 VAC/125 VDC 150 W (inductive load) maximum
Indication	Alarm LED(s) on module front face
Set point	(0 to 100) % multi-turn trim
	potentiometer(s) access on module front face
Repeatability	± 0.2 %
Hysteresis	SEM1401 Adjustable (0.1 to 5) % single
	turn trim pot on module front face.
	SEM1402 Fixed 0.5 %
Delay	0.5 s fixed delay
Failure Mode	On loss of signal: HIGH AlarmNo alarm condition, LOW AlarmAlarm condition (i.e. Alarm operates as if signal has fallen to -25 % or 0 mA)

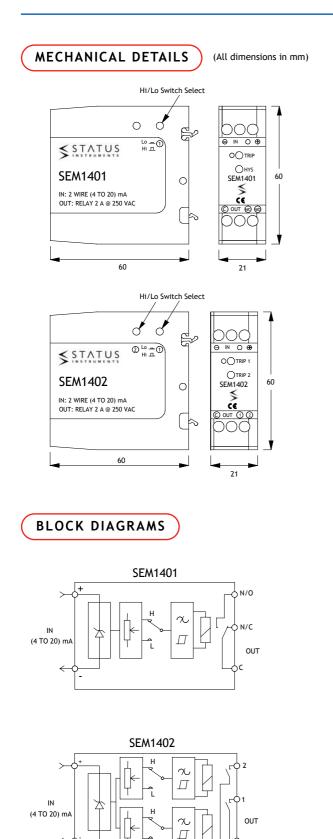
GENERAL SPECIFICATION Breakdown Isolation 3000 VAC rms between contacts and input 1000 VAC rms between contacts Ambient Operating (0 to 50) °C (10 to 95) % RH non-condensing Connections Captive clamp screws Cable Size 4 mm² solid/2.5 mm² stranded Case Material Grey polyamide Flammability To UL94-VO VDE 0304 Part 3 level IIIA

EMC

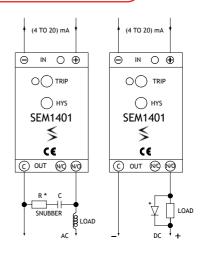
BS EN61326

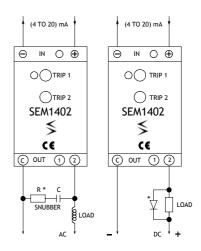


LOOP POWERED TRIP AMPLIFIERS



ELECTRICAL DETAILS





*NOTE: Snubber circuits recommended for inductive loads.

ORDER CODE

SEM1401 Single trip change-over contacts SEM1402 Dual trip N.O contacts ALSO AVAILABLE:

DIN RAIL PRODUCTS			
Process Signal Isolators			
Mains Powered Process Isolator/Convertor			
24 VDC 250 mA Power Supply (90 to 250) VAC input			
Pt100 & T/C Signal Conditioners			

CHECK WITH SALES OFFICE FOR FULL DETAILS

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