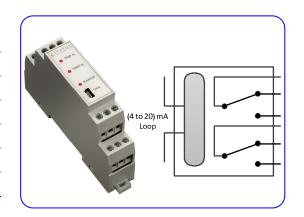
SMART (4 to 20) mA LOOP POWERED DUAL TRIP AMPLIFIER

SEM1636

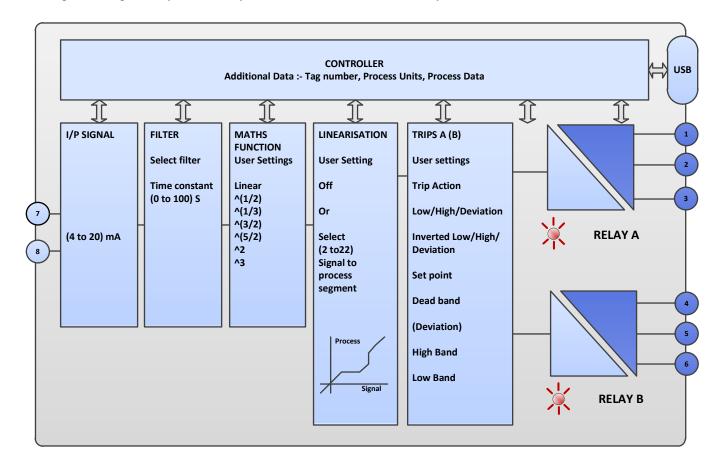
- DUAL TRIP OUTPUT WITH INDEPENDENT SET ACTIONS
- > POWERED FROM (4 to 20) mA LOOP VOLTAGE BURDEN 5 VOLTS
- TRIP RATING 250V AC 1A; 30V DC 1A
- NORMAL AND INVERTED LOW/HIGH/DEVIATION TRIP ACTIONS
- OPTIONAL FILTER AND USER LINEARISATION FUNCTIONS
- LED TRIP INDICATION, FAIL ON OR FAIL OFF TRIP ACTIONS
- CONFIGURATION USING USB PORT



INTRODUCTION

The SEM1636 monitors a (4 to 20) mA loop and provides two independent change over trip contacts set to trip at any point within the (4 to 20) mA range. The SEM1636 requires no additional power connection as power is derived from the (4 to 20) mA loop. Trip outputs are independently configured for action and set point, dead band. Six actions are provided normal High/Low/Deviation and inverted High/Low/Deviation. Additional math filter and user linearisation functions are provided.

Designed for ease of use, our latest USB interface is fitted for quick and easy configuration. Just connect a standard USB cable between the SEM1636 and your PC. Using our free configuration software, the user can configure the device to the required application. To further help save time, the SEM1636 does not need to be wired to a power supply during the configuration process, it is powered via the USB interface from your PC.



SMART (4 to 20) mA LOOP POWERED DUAL TRIP AMPLIFIER



SPECIFICATION @20 °C

SPECIFICATION @ 20°C

INPUT

(4 to 20) mA current loop. Type

Maximum Range (3.8 to 22) mA Operating ±50 mA Maximum

Voltage Burden 5 Volts Max. Update 100 mS

Accuracy ± 0.02 % of full scale deviation Protection Reverse connection and over voltage.

TRIP A

Form C relay contacts Туре

Contact rating 250 V ac rms @ 1A; 30 V dc @ 1 A resistive load Trip Actions High-Low-Deviation; Inverted High-Low-Deviation.

Indication Trip A on - Red LED

Protection Protect with externally fitted 2.0 A (T) fuse 3750 V ac trip A to inputs; trip A to trip B Isolation

TRIP B

Form C relay contacts Туре

Contact rating 250 V ac rms @ 1 A $\,$; 30 V dc @ 1 A resistive load Trip Actions High-Low-Deviation; Inverted High-Low-Deviation.

Connection Screw Terminal Trip B on - Red LED Indication

Protect with externally fitted 2.0 A (T) fuse Protection Isolation 3750 V ac trip B to inputs; trip A to trip B

USER INTERFACE (CONFIGURATION ONLY)

Baud rate 19,200 baud

PC running windows XP or later, USB cable. Equipment

USER INTERFACE FUNCTIONS

Scaling User mA to process value scaling, for simplified setup. Adjustable time constant (0 to 100) Seconds. Filter Functions Linear, ^(1/2), ^(1/3), ^(3/2), ^(5/2), ^2, ^3. Math

(2 to 22) segments mA to process. User Linearisation (Profile)

Process Units 4 Characters Tag Number 20 Characters

Trip Action Individual actions for trip A and B Set point Individual set points for trip A and B Dead Band Individual dead band settings for trip A and B High/low Band Individual High/Low Band settings for trip A and B.

ENVIRONMENT

Operating Ambient (-30 to 70) $^{\circ}\text{C}$; (10 to 90) %RH (non condensing) Storage Ambient (-30 to 70) $^{\circ}\text{C}$; (10 to 90) %RH (non condensing)

Configuration Ambient

Installation Enclosure DIN Rail enclosure offering Protection >= IP65.

APPROVALS

BS EN 61010-1 Installation category II pollution degree.

The product is classed as "PERMANENTLY CONNECTED EQUIPMENT".

MECHANICAL

DIN 43880 (1 Module) Style

Material

Polymide 6.6 self extinguishing 2.5 mm Maximum

Weight < 70 grams

Order code: SEM1636

Status Instruments Ltd Green Lane Business Park Green Lane, Tewkesbury Gloucestershire, UK

GL20 8DE

Tel: +44 (0)1684 296818 Fax: +44 (0)1684 293746 Email: sales@status.co.uk D2525-01-01 SEM1636 DATA SHEET

