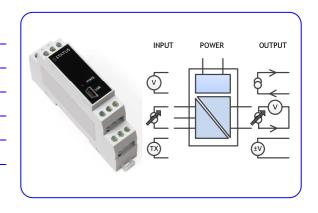
SEM1600VI

>	(-50 to 50) V or (-50 to 50) mA INPUT
>	CURRENT, VOLTAGE OR BIPOLAR VOLTAGE OUTPUT
>	CURRENT SINK AND SOURCE ON INPUT AND OUTPUT
>	POWERED (10 to 32) V AC / (10 to 48) V DC SUPPLY
>	22 SEGMENT LINEARISATION
>	CONFIGURATION USING USB PORT



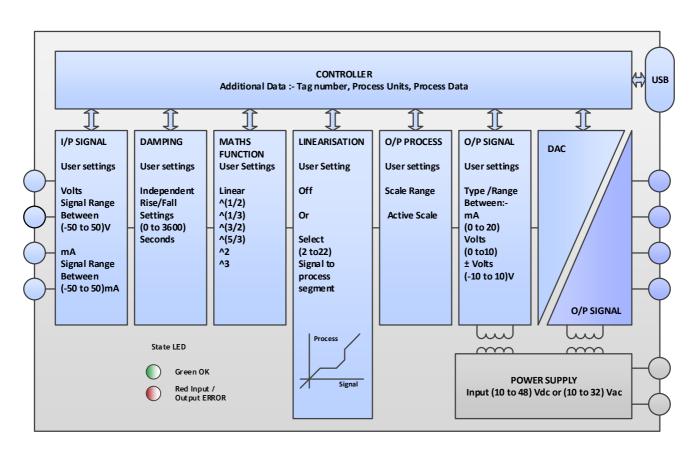
> INTRODUCTION

The SEM1600VI is a "smart" powered isolator/conditioner that accepts any voltage signal between (-50 and 50) V dc or any current signal between (-50 and 50) mA. The output stage offers either voltage, bipolar voltage or current re-transmission signals. The retransmission signal can be ranged to a scale anywhere within the input process range. A transmitter power supply is provided on both input and output meaning the products can accept sink or source applications.

There are a number of free software tools available including 22 segment user linearisation / profiling, maths functions and input signal damping. These enable you to configure the product exactly to your requirements.

For ease of use, a high efficiency switch mode power supply is fitted as standard and does not require any adjustment between ac or dc applications. Operating voltages are (10 to 48) V dc and (10 to 32) V ac

Our USB interface is fitted for quick and easy configuration. Just connect a standard USB cable between the SEM1600VI and your PC. Using our free configuration software, your PC will automatically upload the existing configuration data and guide you through any changes you wish to make. To further help save time, the SEM1600VI 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 POWERED PROCESS SIGNAL ISOLATOR/CONDITIONER

> SPECIFICATION @20 °C

CURRENT INPUT Range Impedance Drift

VOLTAGE INPUT Range Impedance Drift

OUTPUT CURRENT Current Source Current Sink Accuracy

OUTPUT VOLTAGE Range Current Drive

SUPPLY Range Power

GENERAL Response time Isolation LED Indication (STATE)

USER INTERFACE Type Baud rate Equipment

USER INTERFACE FUNCTIONS Scaling Damping Math User Linearisation (Profile) Process Units Tag Number Process Output Signal Output Active scaling

ENVIRONMENT

Operating Ambient Storage Ambient Configuration Ambient Installation Enclosure

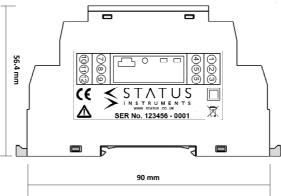
APPROVALS CE

MECHANICAL Style

Terminals

(-50.0 to 50) mA, Accuracy (-22 to 22) mA \pm 5 uA, (-50 to 50) mA \pm 10 uA < 30 Ω < ±0.01 (% of FSD)/°C (-50.0 to 50.0) V, Accuracy (-22 to 22) V \pm 5 mV, (-50 to 50) V \pm 10 mV 1 MΩ < ±0.01 (% of FSD)/°C Range (0 to 21.5) mA , Max Load 750 Ω Range (0 to 21.5) mA , Supply (10 to 30) V dc, Voltage effect 0.2 uA/V (mA Out / 2000) or \pm 5 uA which ever is the greater, Drift 1 uA/°C (0 to 10.1) V or (-10.1 to 10.1) V, Accuracy ± 5 mV \pm 2 mA, Min load 5000 Ω @ 10V (10 to 48) VDC, (10 to 32) VAC Protected by internal 500mA resettable fuse. < 1 W Full Power Start up 5 seconds, Update 300 mS, Response 400 mS, Warm up 2 minutes. Supply to input to output 500 V dc. LED, Green when output (-0.1 to 100.1) % LED, Red = input / output error **USB 2.0** 19,200 baud PC running windows XP or later, USB cable. User signal to process value scaling, for simplified setup. Independent rise and fall damping. Range (0 to 3600) Seconds Functions Linear, ^(1/2), ^(1/3), ^(3/2), ^(5/2), ^2, ^3. (2 to 22) segments Ω (slide wire) to process. 4 Characters (signal input only) 20 Characters Range in process units Select type, signal range and (temperature only) error signal Set output process range against active sensor input (-30 to 70) °C; (10 to 90) %RH (non condensing) (-30 to 70) °C; (10 to 90) %RH (non condensing) (10 to 30) °C DIN Rail enclosure offering Protection >= IP65. BS EN 61326

DIN 43880, Colour grey, material Polyimide 6.6, weight < 70 grams 2.5 mm Maximum





Order code: SEM1600VI

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