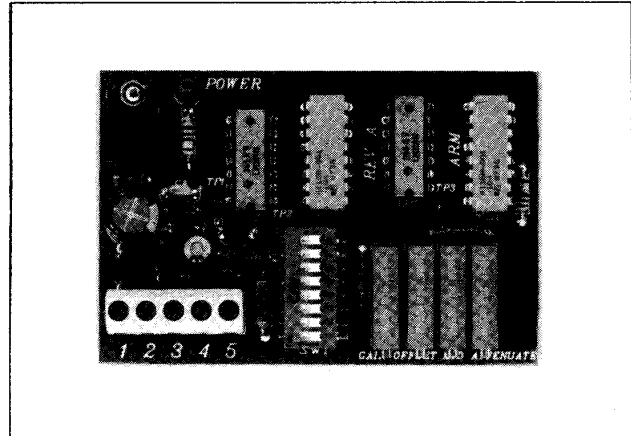


**RESCALING MODULE SC14****Analog Current/ Voltage Input to Analog Current/ Voltage Output Rescaling Module****FEATURES**

- \* Field Selectable Ranges
- \* Reverse or Normal Acting Output
- \* LED Power Indicator
- \* Snap Track Mounted

**APPLICATIONS**

- \* Resistance to Current/ Voltage Conversion
- \* Voltage to Current/ Voltage Conversion
- \* Current to Current/ Voltage Conversion
- \* Shrink or Expand Sensor Ranges
- \* Increase Analog Input Resolution
- \* Reverse Signals
- \* Adapt Non-compatible Signals

**PRODUCT DESCRIPTION**

The SC14 is an analog rescaling module which accepts an analog voltage or current and rescales it to another voltage or current. Several preset ranges are jumper selectable. Trimmer potentiometers can then be used to make fine adjustments on output ranges for maximum flexibility. The SC14 can attenuate an input signal to 100%. The SC14 also has an adjustable gain and offset. The output gain can be adjusted

anywhere from 1 to 25 times the input. The offset of the output can be adjusted anywhere from +/- .25 to +/- 20 volts. The SC14 also has the ability to reverse a signal. The SC14 also has a regulated DC power supply output to power sensors. By using voltage divider applications, the SC14 can also accept a resistance input. SC14 is also available in a higher output model.

**ORDERING INFORMATION** Specify: SC14**SPECIFICATIONS****Electrical Requirements****Power supply**

Supply Voltage:

Regulated 24 Vdc +/- 10% < 0.2 volts  
ripple Regulated 22 to 28 Vac

Supply Current:

200 mA max

Regulated Power Output:  
(for user)20 Vdc  
30 mA maxField Adjustable Ranges  
(with 15 turn potentiometers)**Input**

Voltage Range:

0 Vdc min  
35 Vdc max

Current Range:

0 mA min  
44 mA max

Input Impedence:

Current = 250 ohms  
Voltage = 1 M ohms



## Output

Voltage Range:	0.25 Vdc min 20 Vdc max
Current range:	1.0 mA min 44 mA max
Signal Gain:	1 to 25 times
Signal Attenuation:	0 to 100%
Signal Offset:	+/- 0.25 to 20 volts
Signal Inversion (reverse acting)	20 to 0.25 volts
Load Impedence:	Current = 750 ohms @ 20 mA Voltage = 5000 ohms @ 20 volts

## Mechanical Requirements

### Connections

Wire size:	Up to 14 gauge max
Terminal size:	Captive screw, moving clamp design in nickel plated copper alloy
Dimensions:	3.25" L x 2.25" W x 1.5" H
Weight:	2.0 oz
Mounting:	Furnished with 3.25" length of 2.25" wide snap track

## Enviromental Requirements

Operating Temperature:	-20 to 150 deg F
Operating Humidity:	10 to 95% non-condensing

Specifications may change without notice.

**Call for Other Calibration Ranges and Versions.**

