

# Ranger 5

Variable Range Simulator



## Standard Features

- ABS plastic case, weighs less than 1 lb
- Fixed rotary switch, -0.5 mV/V to 4.5 mV/V in nine steps of 0.5 mV/V per step
- 10-turn vernier knob with locking graduated dial
- Vernier selection of four ranges: Off, Fine, Medium and Coarse
- Ideal tool for calibrating indicator A/D offset and gain setting
- A/D calibration steps for -0.5 mV/V for offset and 4.5 mV/V for gain
- Used in testing, troubleshooting and calibrating digital weight indicator

## Specifications

- Fixed Steps:**  
-0.5 mV/V to 4.5 mV/V
- Vernier:**  
Variable range: up to 0.5 mV/V, up to 1 mV/V, up to 1.5 mV/V
- Impedance:**  
350 ohm nominal
- Nonlinearity:**  
Less than 0.02%
- Connectors:**  
Binding posts suitable for banana plug or 14 gauge wire
- Temperature Coefficient:**  
± 5 ppm/ °C
- Dimensions:**  
(L × W × H)  
4.5 × 3.5 × 1.25 in
- Warranty:**  
One-year limited

## Part Number/Price

Part #	Description	Price
68031	Ranger 5 simulator	Consult

## Options/Accessories

Part #	Description	Price
21116	Cable (4 ft) with banana plugs	Consult

# Ranger 7

Variable Range Simulator



## Standard Features

- High resolution design
- Used in high precision testing, troubleshooting and calibrating digital weight indicators
- Switchable offset
- Painted die-cast enclosure

## Specifications

- Vernier:**  
Two ranges; one is equal to the sum of the 0.05 mV/V switch and the 0 to 0.5 mV/V switch. The other is the sum of the 0.5 mV/V, 0.1 mV/V and 0.01 mV/V switches.
- Load Impedance:**  
Three settings:  
X0.5: 700 ohm  
X1: 350 ohm (one standard load cell)  
X4: 87.5 ohm (four load cell platform)
- Linearity:**  
± 0.01% + 1µV
- Connectors:**  
Low Thermal Electronics, Type 2758 precision gold plated binding posts, standard banana jacks or 14 AWG wire
- Temperature Coefficient:**  
5 ppm/ °C
- Zero Offset:**  
± 0.0005 mV/V
- Output Range:**  
0 to 3 mV/V in 0.01 mV/V steps
- LED Annunciators:**  
EXC +  
EXC -  
Offset ON  
0.5 mV/V  
0.1 mV/V
- Warranty:**  
One-year limited

## Part Number/Price

Part #	Description	Price
157323	Ranger 7 high resolution calibration simulator	Consult

## Options/Accessories

Part #	Description	Price
21116	Cable (4 ft) with banana plugs	Consult

JUNCTION BOXES /  
SIMULATORS