

Standard Features

- Two metal mounting brackets
- Three stages of protection: Gas discharge tube, series resistor and transient voltage suppressor (TVS)
- Two terminal posts for ground
- RS-232 high energy surge protector
- Terminal blocks for transmit, receive, request to send, clear to send and signal ground
- Safe for use with computers and PLCs
- · Also works with RS-485, RS-422 and 20 mA

Applications

Indicators, remote displays, printers, computers and PLCs

Specifications

Clamping Voltage (Stage One):

72 V DC minimum, 108 V DC maximum

Series Resistance (Stage Two): 2.7 ohm

Clamping Voltage (Stage Three):

14.3 V minimum, 15.7 V maximum

Clamping Time:

< 5 × 10⁹ seconds

Temperature:

Operating: 0 °F to 122 °F (-18 °C to 50 °C)

Connectors:

Five-position terminal blocks

Dimensions:

 $(L \times W \times H)$

Approximately $4.5 \times 3.3 \times 1.8$ in

Warranty:

One-year limited

Approvals:

CE Listed

Part Number/Price

Part#	Description	Price
69201	TP232	Consult

Options/Accessories

Part#	Description	Price
17778	12 in ground strap	Consult
17781	24 in ground strap	Consult
69516	Additional installation manual	Consult

Ranger 1

Variable Range Simulator



Part Number/Price

Part#	Description	Price
68029	Ranger 1 variable range simulator	Consult

Options/Accessories

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

Standard Features

- ABS plastic case, weighs less than 1 lb
- · Large vernier knob, smooth 10-turn potentiometer
- · Ideal tool for troubleshooting a scale system, bench testing stability of indicators and setpoint simulation

Specifications

Variable Range:

0 to 3 mV/V

Impedance:

700 ohm nominal

Temperature:

Operating:

0 °F to 122 °F (-18 °C to 50 °C)

Connectors:

Binding posts suitable for banana plug or 14 gauge wire

Temperature Coefficient:

±100 ppm/°C

Dimensions:

 $(L \times W \times H)$ $4.5 \times 3.5 \times 1.25$ in (114 × 89 × 32 mm)

Warranty:

One-year limited