Approvals

CE

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
- PLC

Specifications

Clamping Voltage (Stage One):
72 VDC minimum, 108 VDC maximum

Series Resistance (Stage Two):
2.7 ohm

Clamping Voltage (Stage Three):
14.3 V minimum, 15.7 V maximum

Clamping Time:
Less than 5 < 10-9 seconds

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

Connectors:
Five-position terminal blocks

Dimensions:
(L × W × H)
Approximately 4.5 × 3.3 × 1.8 in

Warranty:
One-year limited

Approvals:
CE

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

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 × W × H)
4.5 × 3.5 × 1.25 in
(114 × 89 × 32 mm)

Warranty:
One-year limited

Part Number/Price

Part #	Description	Price
68029	Ranger 1 variable range simulator	Consult

Options/Accessories

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

JUNCTION BOXES / SIMULATORS