

TP232 RS-232

High Energy Serial Protection



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

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

Specifications:

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

Series Resistance (Stage Two):
2.7 ohms

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

Clamping Time:
Less than 5 x 10⁻⁹ seconds

Connectors:
5 position terminal blocks

Dimensions:
Approximately (L x W x H) 4.5 in x 3.3 in x 1.8 in
(114.3 mm x 83.8 mm x 45.7 mm)

Weight:
Approximately 0.42 lb (0.19 kg)

Approvals:
CE marked

Applications:

- Indicators
- Remote displays
- Printers
- Computers
- PLC

Ranger 1



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
- Binding posts are color coded to ISA S37.8 standard

Part Number/Price

Part #	Description	Price
68029	Ranger 1 variable range simulator	Consult

Options/Accessories

Part #	Description	Price
21116	Cable with banana plugs	Consult

Specifications:

Range:
0-3 mV/V, variable

Impedance:
700 ohms nominal

Connectors:
Binding posts suitable for banana plug or 14 gauge wire

Temperature Coefficient:
±100 ppm/°C

Dimensions:
(L x W x H) 4.5 in x 3.5 in x 1.25 in (114.3 mm x 88.9 mm x 31.8 mm)

Warranty:
One-year limited warranty