

TP232 RS-232

High Energy Serial Protection



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

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

Clamping Time:
Less than 5 x 10⁻⁹ seconds

Connectors:
Five-position terminal blocks

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

Weight:
Approximately 0.42 lb (0.19 kg)

Approvals:
CE marked

Warranty:
One-year limited warranty

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

Applications

- Indicators
- Remote displays
- Printers
- Computers
- PLC

Part Number/Price

Part#	Description	Price
69201	TP232	\$175.00

Options/Accessories

Part#	Description	Price
17778	12 in ground strap	\$14.00
17781	24 in ground strap	\$18.00
69516	Additional installation manual	\$6.00

Specifications

Variable Range:
0-3 mV/V

Impedance:
700 ohm nominal

Temperature:
Operating Range: 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:
(W x L 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



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	\$145.00

Options/Accessories

Part#	Description	Price
21116	Cable with banana plugs	\$60.00