PMA-01 RS-232 Serial Adapter
SPECIFICATIONS
Compatibility: EIA-232.


Connectors: PC compatible 9-pin D subminiature connector (DB9) and RJ11 (adapter to meter). Cable: $3 \mathrm{ft}(0.9 \mathrm{~m}$ ) standard CAT5e cable provided with adapter.
Distance: Adapter to panel meter: $6 \mathrm{ft}(1.8 \mathrm{~m}$ ) max; Adapter to computer: $50 \mathrm{ft}(15 \mathrm{~m})$ max; Serial interface cable not provided
Power: Powered by panel meter M-LINK connection. Status Indication: Separate LEDs for power (P), transmit (TX), and receive (RX).
PMA-01

PMA-03 RS-422/485 Serial Adapter


SPECIFICATIONS
Compatibility: EIA-422 and EIA-485.
Connectors: Removable screw terminal connector and RJ11 (adapter to meter).
Cable: $3 \mathrm{ft}(0.9 \mathrm{~m}$ ) standard CAT5e cable provided with adapter.
Distance: Adapter to panel meter: 6 ft ( 1.8 m ) max; Adapter to computer: $3937 \mathrm{ft}(1200 \mathrm{~m}$ ) max.
Power: Powered by panel meter M-LINK
connection.
Status Indication: Separate LEDs for power ( P ), transmit (TX), and receive (RX).
PMA-03

PMA-06 USB to RS-232 Non-Isolated Converter
SPECIFICATIONS
Compatibility: USB 1.1, USB 2.0, EIA-232.
Connectors: PC compatible 9-pin D subminiature connector (DB9) and USB type A.
Drivers: Windows ${ }^{\circledR}$ 98/2000/Me/XP operating systems.
Distance: USB connection: 10 ft (3 m) max;
RS-232 connection: $50 \mathrm{ft}(15 \mathrm{~m})$ max.
Power: USB port.

## PMA-06

PMA-09 Snubber
SPECIFICATIONS
Capacitance Value: $0.01 \mu \mathrm{~F}$.
Resistor Value: $470 \Omega$.
Voltage: 250 V .

## PMA-09

PMA-11 4 Relay Expansion Module
SPECIFICATIONS
Relays: Four form A (SPST); Rated 3 A @ 30 VDC
 and 125/250 VAC for resistive loads 1/14 HP @ 125/250 VAC for inductive loads.
Cable: Standard CAT5e cable; provided with module. Connectors: RJ45.
Tightening Torque: Screw terminal connectors: 5 lb -in ( 0.56 Nm ).
Enclosure: ABS-94HB material, UL94HB.
Overall Dimensions: 2.286 in $x .924$ in $\times 3.624$ in
( $58.06 \mathrm{~mm} \times 23.47 \mathrm{~mm} \times 92.05 \mathrm{~mm}$ ) ( $\mathrm{w} \times \mathrm{h} \times \mathrm{d}$ ).
Power: Panel meter M-LINK connection.
Weight: $2.4 \mathrm{oz}(68 \mathrm{~g})$.

PMA-02 Meter Copy Cable
SPECIFICATIONS
Cable: 3 ft ( 0.9 m ) standard modular cable.

PMA-02

PMA-04, PMA-05 RS-232 to RS-422/485 Converters SPECIFICATIONS


Compatibility: EIA-232, EIA-422, and EIA-485.
Connectors: Screw terminal connector and DB9.
Distance: RS-232 connection: 50 ft ( 15 m ) max; RS422/485 connection: $3937 \mathrm{ft}(1200 \mathrm{~m}$ ) max.
Number of Units: Up to 31 RS-485 compatible devices. Power: 9 to 12 VDC; 115 VAC/12 VDC adapter included Isolation: PMA-04: 1500 VAC between data lines; 700 VDC input/output-to-power; PMA-05: 1500 VAC between data lines only.

PMA-04, Isolated
PMA-05, Non-Isolated

## PMA-07, PMA-08 USB to RS-422/485 Converters

Compatibility: USB 1.1, USB 2.0, EIA-422, and EIA-485. Connectors: Screw terminal connector and USB Type B. Drivers: Windows ${ }^{\circledR}$ 98/2000/ME/XP operating systems,

Distance: USB connection: 10 ft (3 m) max; RS-422/485 connection: $3937 \mathrm{ft}(1200 \mathrm{~m})$ max.
Number of Units: Up to 31 RS-485 compatible devices.
Isolation: PMA-07: 1500 VAC between data lines, 700 VDC input/output-to-power; PMA-08: 1500 VAC between

PMA-07, Isolated
PMA-08, Non-Isolated

PMA-10 DIN Rail Mounting Kit for Two Expansion Modules


SPECIFICATIONS
Rail: 6 in ( 15.24 cm ) long.
Mounting Clips: 4 plastic mounting clips with adhesive strips.
Total Capacity: 2 expansion modules.
PMA-10

PMA-12 4 Digital Inputs and 4 Digital Outputs Module
SPECIFICATIONS
System: Up to 2 modules for a total of 8 inputs, outputs.


VDC.
Digital Output Logic: High: 4.75 to 5 VDC; Low: 0 to 0.4 VDC.
Current: Source: 10 mA max.; Sink: 1.5 mA min..
Cable: Standard CAT5e cable; Provided with module.
Connectors: RJ45.
Tightening Torque: Screw terminal connectors: 5 lb -in ( 0.56 Nm ).
Enclosure: ABS-94HB material, UL94HB.
Power: Panel meter M-LINK connection.
Weight: 2.2 oz (62 g).
PMA-12

## SPECIFICATIONS

 Linux 2.4 \& greater.Power: USB port. data lines only.


