Panel Meter Accessories

For PPM, APM, MPM, and LTI Series Panel Meters

### 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 ft (0.9 m) standard CAT5e cable provided with adapter.
- **Distance:** Adapter to panel meter: 6 ft (1.8 m) max; Adapter to computer: 50 ft (15 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-02 Meter Copy Cable

**SPECIFICATIONS**
- **Cable:** 3 ft (0.9 m) standard modular cable.

### PMA-03 RS-22/485 Serial Adapter

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

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

**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® 98/2000/Me/XP operating systems.
- **Distance:** USB connection: 10 ft (3 m) max; RS-232 connection: 50 ft (15 m) max.
- **Power:** USB port.

### 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® 98/2000/Me/XP operating systems.
- **Distance:** USB connection: 10 ft (3 m) max; RS-232 connection: 50 ft (15 m) max.
- **Power:** USB port.

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

**SPECIFICATIONS**
- **Compatibility:** USB 1.1, USB 2.0, EIA-422, and EIA-485.
- **Connectors:** Screw terminal connector and RJ45.
- **Drivers:** Windows® 98/2000/Me/XP operating systems, Linux 2.4 & greater.
- **Distance:** USB connection: 10 ft (3 m) max; RS-422/485 connection: 3937 ft (1200 m) max.
- **Power:** USB port.
- **Isolation:** PMA-07: 1500 VAC between data lines; 700 VDC input/output-to-power; PMA-08: 1500 VAC between data lines only.

### PMA-09 Snubber

**SPECIFICATIONS**
- **Capacitance Value:** 0.01 µF.
- **Resistor Value:** 470 Ω.
- **Voltage:** 250V.

### 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-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 x 3.624 in (58.06 mm x 23.47 mm x 92.05 mm) (w x h x d).
- **Power:** Panel meter M-LINK connection.
- **Weight:** 2.4 oz (68 g).

### PMA-12 4 Digital Inputs and 4 Digital Outputs Module

**SPECIFICATIONS**
- **System:** Up to 2 modules for a total of 8 inputs, outputs.
- **Digital Input Logic:** High: 3 to 5 VDC; Low: 0 to 1.25 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).

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