

## PM100 RS232 & RS422 EXPANDER



### Features

- 2000 volts full galvanic isolation between inputs, outputs and power supply.
- 1 NMEA 0183 / RS-232 input; 1 NMEA 0183 / RS-422 input.
- 3 NMEA 0183 /RS-232 outputs; 3 NMEA 0183 / RS-422 output.
- Wide operating voltage range of 9 to 24 volts DC.
- Transient protection on all inputs and outputs.
- Fully potted electronics in flame retardant ABS plastic case (UL94V-0) with mounting flanges.
- Thermoplastic (UL94V-0) terminal blocks with tin plated brass screws and terminals accepts 24 to 14 AWG.
- Buffers and Converts NMEA 0183 signals.

### Description

The PM100 0183 Expander allows multiple listeners to be connected to a single talker. The PM100 takes either a single-ended RS-232 or a differential RS-422 input signal. It conditions and buffers the input signal to provide three single-ended RS-232 outputs and one differential RS-422 output. It also provides up to  $2kV_{RMS}$  input-to-output-to-power isolation using optical and transformer technology.

### Specifications:

Isolation	3-way isolation: Input-to-output-to-power; Hi-pot: $2000 V_{RMS}$ for 1 minute, 5500 VDC for 1 second, Leakage Current: Less than 50uA @ 2000 VAC / 60Hz; 5500 VDC
Power Supply	9 to 24 volts DC @ 30mA (min), 140mA (max). 400 volts DC reverse polarity protection.
NMEA / RS-422	Input Resistance: 500 ohms; Output drive: 100mA
NMEA / RS-232	Input Resistance: 3K to 7K ohms; Output Drive: 10mA
Baud Rate	0 to 115.2 kbps
Case	Height: 1.34 in. (34 mm) Length: 4.8 in. (122 mm) Width: 2.36 in. (60 mm)



