

- Completely transparent to host software
- No external flow control signals required
- Optically-isolated bidirectional data flow
- Standard baud rates: 300 to 115Kbaud
- Automatic internal RS-485 bus supervision
- Networking up to 4,000 meters
- Transient suppression on RS-485 data lines
- Internal jumper selectable termination resistors
- Internal $1 \mathbf{k} \Omega$ biasing resistors on RS-485 data lines


## Ordering Information

M2000 RS-232/RS-485 Converter/Repeater, 10-30 VDC power
M2000-PS 12VDC @ 3A Power Supply for the M2000
CM1000/9 Cable, DB-9 female to DB-9 male, 3m ( 10 ft )
CM1000/25 Cable, DB-25 female to DB-9 male, 3 m ( 10 ft )

The M2000 is an RS-485 repeater that operates on $10-30 \mathrm{VDC}$. It is ideal for supporting RS-485 networks of up to 32 devices including M-1000/2000/3000/ 4000 Series Programmable Signal Conditioning modules. The M2000 converter allows communications bus lengths up to 4000 feet and data rates up to 115 K baud using one twisted pair of wires. The M2000 automatically controls bus direction allowing host software written for full-duplex RS-232 to be used without modification. Optical isolation up to 1500 VAC protects your PC from shorts on the network. Series thermistors provide internal surge protection on the data lines.

## SPECIFICATIONS

MAX. COMMON MODE VOLTAGE: $1500 \mathrm{~V} \mathrm{rms}, 1$ minute duration.
BAUD RATES: $300,600,1200,2400,4800,9600,19200,38400,57600,115200$.
POWER REQUIREMENTS: +10 to +30 VDC unregulated.
POWER CONSUMPTION: 1.5 W max. (RS- 485 driver on); 0.2 W max. (idle, LEDs off).
DIMENSIONS: 7.06 in $W \times 1.53$ in $\mathrm{H} \times 5.30$ in D .
TEMPERATURE: $-25^{\circ}$ to $70^{\circ} \mathrm{C}$.
RELATIVE HUMIDITY: 0\%-95\% non-condensing.
RS-485 CONNECTIONS: Phoenix screw terminal barrier plug (supplied). Replace with Phoenix MSTB 2.5/4 ST 5.08 or equivalent.
RS-232 CONNECTION: DB-9 female.

