

# Thermistor Expansion Module

The thermistor expansion module is used when monitoring additional battery pack temperatures is necessary. Each expansion module can measure up to 80 temperatures and is compatible with both the Orion BMS and the Orion Jr BMS from Ewert Energy Systems. When used with an Orion BMS unit, up to 10 modules can be connected together to monitor a total of 800 temperatures. For the Orion Jr. BMS, one thermistor expansion module can be used to monitor up to 80 temperatures.



## Product Specifications

- Operates with the Orion BMS or Orion Jr. BMS from Ewert Energy Systems (BMS sold separately).
- Can be used as a stand-alone temperature monitoring device.
- Full automotive operating and sensing temperature range (-40C to 80C).
- High noise immunity.
- Communicates data via CANBUS or via analog outputs.
- Several CANBUS baud rates supported (125 Kbps, 250 Kbps, 500 Kbps, 1000 Kbps).
- Can be configured to measure between 1 and 80 thermistors.
- Supports many different 10K thermistors (100K thermistor support available as special order).
- Requires a CANdapter for initial programming and data logging.

## Physical Specifications

- Dimensions:  
14.3 cm (W) x 9.3 cm (L) x 4.4 cm (H)
- Product weight: 11 oz

Specification Item	Min	Max	Units
Supply Voltage	10	16	Vdc
Supply Current (at 12V DC)	35	60	mA
Temperature Range (Operating and Sensing)	-40	80	C

The Thermistor Expansion Module is a product of Ewert Energy Systems, Inc.

Ewert Energy Systems is a research and development company focused on developing solutions for plug-in hybrid and electric vehicles and other energy storage applications.



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