CAN Current Module

REACH TECHNOLOGIES INC.

Current and Voltage Measurement Module
Provides effortless current sensing for AC and DC currents. Measures currents from 1A to 500 A. The Current Module's data and configuration conforms to the CANopen specification. The CAN interface and power are galvanically isolated.

CAN Interface Specifications

Connector Type	■ M12 5-pin
Protocol	■ CANopen
Bit Rates	■ 20 kbps to 1 Mbps

Device configuration via CANopen data dictionary

CANopen

Measurement Specifications

Sensor	■ Dual Hall Efect - low and high current sensors
Sensor bandwidth	■ 75 kHz
AC Measurement	■ True RMS over reporting period
DC Measurement	■ Average of sampled values over reporting period
	■ Peak value during sample period
Accuracy	■ ±1 % of full-scale (calibration dependent)
Transient Detection	■ Peak current transient detection (event & capture)
Waveform capture	■ Record up to 10 sec at 10 ksps (waveform capture) (Post-capture upload via CAN)

Physical Specifications

Voltage	■ 9 VDC to 36 VDC	Material	■ Epoxy potting in ABS shell	
Power Consumption	■ 850 mW	Height	■ 1.6"	4.0 cm
Ambient Tempature Range	■ -50 °C to 85 °C	Width	■ 2.2"	5.6 cm
Storage Temperature Range	■ -50 °C to 95 °C	Length	■ 3.5"	8.5 cm
Relative Humidity	■ 5% to 99%	Weight	■ 3.9 oz	110 g
Galvanic Isolation		IP Rating	■ IP 67	
Power	■ 2500 VRMS Isolation Rating per UL 1577			
CAN	■ 5000 VRMS for 1 minute per UL 1577			

Ordering Information

CAN-CURRENT-B-M	■ M12 5-pin connctors / Banana Plug [30A max]
CAN-CURRENT-P-M	■ M12 5-pin connctors / Threaded post & nut [500A max]

www.reachtest.com

* Specifications subject to enhancement