

Alternating Current Monitor

- Monitors AC Sources and Outputs Data to NMEA 2000® Network
- Monitors Utilities (Shore Power), Generators, and Bus Power
- Provides Voltage, Current, Frequency, Real Power, Reactive Power, Apparent Power, Power Factor, and Imported & Exported Energy
- Supports Single Phase and Three Phase Systems
- Sealed Waterproof Enclosure

ACM100 Alternating Current Monitor

Maretron's ACM100 is a device which monitors AC power sources and outputs information about these sources onto the industry standard NMEA 2000® marine data network. ACM100 output information is then displayed with networked NMEA 2000® equipment such as the Maretron DSM250 dedicated display or with NMEA 2000® compatible software such as Maretron N2KView®.

Products

PART NUMBER	DESCRIPTION
ACM100-01 MARETRON	Alternating Current (AC) Monitor ACM100 Current Transducer



- NMEA 2000® Interface
- Waterproof Connectors
- Sealed Waterproof Enclosure
- Opto-Isolated from NMEA 2000® Eliminating Potential Ground Loops
- Monitoring of busses carrying AC power and transmitting:
 - Voltage
 - Frequency
- Monitoring AC Power Sources such as Utilities and Generators and transmitting:
 - Voltage
 - Current
 - Frequency
 - Real Power
 - Reactive Power
 - Apparent Power
 - Power Factor
 - Total Energy Imported
 - Total Energy Exported

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Leading the way in NMEA 2000 standards

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Direct Current Monitor

- Monitors DC Sources and Outputs Data to NMEA 2000® Network
- Measures Voltage & Current of any DC Source or Load
- Advanced Battery Monitoring Including Temperature, Load Current, Charging Current, and Terminal Voltage
- Computes Battery State of Charge, and Time Remaining
- Hall-Effect Sensor Slips Over Wire – No Connection Breaks as with Shunts

DCM100 Direct Current Monitor

Maretron's DCM100 Monitor is an advanced electronic monitoring device used to measure the voltage and current of any direct current (DC) power source or load. Examples of DC power sources that can be monitored with the DCM100 include batteries, alternators, solar panels, and wind generators. The DCM100 can also be used to monitor DC loads like inverters, windlasses, DC refrigerators, or any DC branch circuit. When the DCM100 is used to monitor batteries, sophisticated circuitry and software algorithms monitor battery temperature, load current, charging current and terminal voltage to precisely compute battery state of charge, state of health, and time remaining. To measure current, the DCM100 uses an included state-of-the-art Hall effect current sensor which simply slips over the wire – you don't have to break connections or install connectors as you do with inline shunts used by other solutions. Best of all, the DCM100 is NMEA 2000® certified so you can view any and all DC information anywhere on the vessel using a compatible NMEA 2000® display. The DCM100 is a key component of Maretron's N2KView® vessel monitoring and control system.



- Battery Voltage
- Battery Current
- Ripple Voltage
- Battery Case Temperature
- State of Charge
- Time Remaining
- Charge Efficiency Factor



Products

PART NUMBER	DESCRIPTION
DCM100-01	Direct Current (DC) Monitor
POH1	DCM100 Battery Harness with Fuse
LBH12003-S	DCM100 Current Transducer with Cable
TRK3	DCM100 Temperature Sensor

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DC Relay (DCR100)

- Six 10 Amp DC Relays Controlled through NMEA 2000® Network (Solid State Relay)
- Loss of NMEA 2000® Power - All Channels Turn Off, Repower - Channels Return to Last State
- Controllable (Switched On and Off) from N2KView® Platinum and DSM250
- Each Channel has Current Monitoring (Alarm on Burnt Out Bulb Detection)
- Can be Activated via N2KView® Platinum or DSM250 Alerts (Ideal for Horns, Bells, and Strobe Lights)

DCR100 Direct Current Relay Module

Maretron's DCR100 contains 6 Direct Current (DC) relays, each capable of switching up to 10 amps. The DCR100 connects directly to an NMEA 2000® network, so you can turn on and off the relays from any device onboard or remotely running Maretron's N2KView® software. The DCR100 easily handles resistive DC loads like lights, or inductive DC loads like pumps and motors. The DCR100 can also be used to switch AC circuits using external relays. An added benefit of the DCR100 is that it reports the current through each of the six channels, allowing you to determine if loads are drawing too little electrical current such as burnt out bulbs, or if the loads are starting to draw too much electrical current.



PART NUMBER	DESCRIPTION
DCR100-01	Direct Current Relay Module



- Six Relays for On / Off Control Over NMEA 2000® Network
- Each Relay Capable of Carrying Up to 10 amps
- Individual Relay Electrical Current Monitoring
- Automatic Relay Over Current Shutdown (Shuts Down at ~12 amps)
- Automatic Relay Thermal Shutdown (Over Temperature Protection)

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Run Indicator Module

- **Monitors Both AC & DC Circuits and Reports Running Status Over NMEA 2000® Network**
 - ✓ Manual or Auto Switched Loads
- **Indicates Whether or Not Various Devices are Running**
 - ✓ Bilge pumps
 - ✓ Winches
 - ✓ Running Lights
 - ✓ Transfer Pumps
 - ✓ Exhaust/Intake Fans

RIM100 Run Indicator Module



Maretron's Run Indicator Module monitors both AC and DC electrical circuits and reports, over an NMEA 2000 network, whether or not the electrical circuit is energized and running. The RIM100 works equally as well for monitoring manually switched loads (e.g., running lights, anchor lights, or deck lights) as it does for automatically switched loads. Monitoring automatically switched loads (e.g., bilge pumps, engine exhaust/intake fans, and transfer pumps) via the RIM100 is especially useful because you know exactly when equipment is, or isn't running.



- Monitors and reports the running status of connected devices
- Works with both AC and DC loads
- Works with both automatically and manually switched loads
- Can indicate the status of a wide variety of loads
 - Bilge Pumps
 - Winches
 - Running Lights
 - Transfer Pumps
 - Exhaust/Intake Fans

Products	
PART NUMBER	DESCRIPTION
RIM100-01	Run Indicator Module

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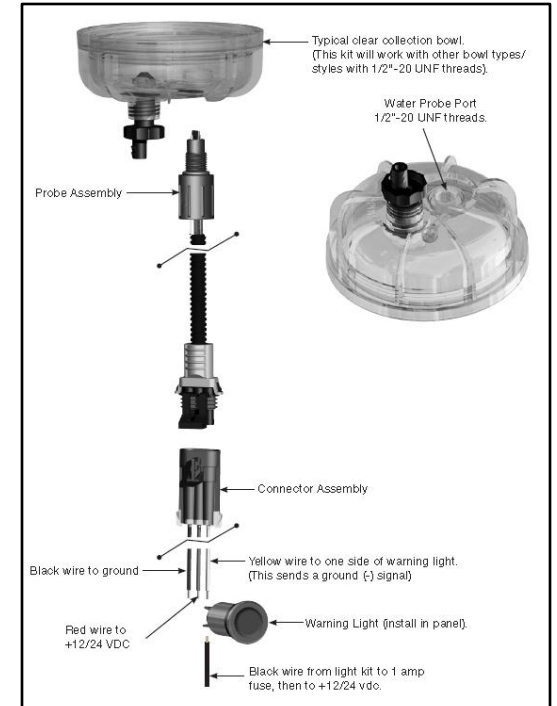
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Water-In-Fuel

- Maretron Part Number WIF-RK30880E
- Connects To RIM100 (Voltage Sense Across Warning Light)
- Water-In-Fuel Sensor is Part of a Comprehensive Fuel Monitoring System



RK30880E Kit Parts



Installation Diagram

<http://www.maretron.com/support/knowledgebase/knowledgemanager/questions/476/Can+I+use+the+RIM100+to+indicate+%22Water+In+Fuel%22%3F>