

# 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 (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.

## Products

PART NUMBER	DESCRIPTION
RIM100-01	Run Indicator Module
WIF-RK30880-E	Water in Fuel Detector



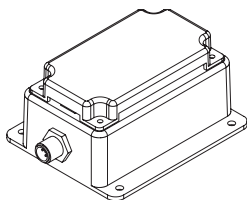
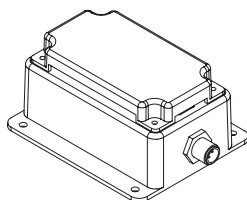
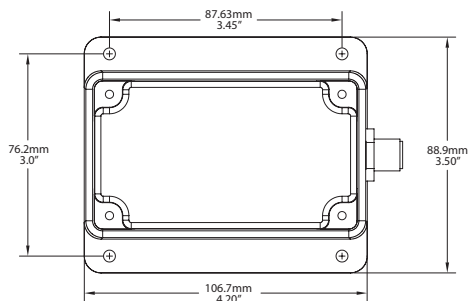
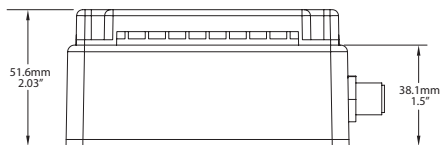
- Monitors and reports the running statuses of six independently connected devices
- Works with both AC and DC loads
- Works with both automatically and manually switched loads
- Can indicate the status of a wide variety of loads
  - Bilge Pumps
  - Winches
  - Running Lights
  - Transfer Pumps
  - Exhaust/Intake Fans
  - Water in Fuel notification
- Includes built in timers and counters so you know how long and many times a load is energized

The following accessories are available for the RIM100:



### **WIF-RK30880-E Water in Fuel Detector**

A WIF-RK30880-E Fuel detector mounted on the bottom of a fuel filter will provide a voltage when water is detected in the fuel. This voltage can be detected by the RIM100 and used to trigger an Alert or display an Indicator.



DSM150 & DSM250 Screen Shots

**Certifications Specifications**

Parameter	Value	Comment
Number of Channels	6	
"OFF" Voltage Range (DC)	0VDC-1VDC	
"OFF" Voltage Range (AC)	0VAC-1VAC	RMS
"ON" Voltage Range (DC)	9VDC to 240VDC	
"ON" Voltage Range (AC)	9VAC to 240VAC	RMS

Standard	Comment
NMEA 2000® Standard	Level A
Maritime Navigation and Radio Communication Equipment & Systems	IEC 61162-3
Maritime Navigation and Radio Communication Equipment & Systems	IEC 60945
FCC and CE mark	Electromagnetic Compatibility

**NMEA 2000® Parameter Group Numbers**

Description	PGN #	PGN Name	Default Rate
Periodic Data PGNs	127501	Binary Switch Bank Status	1 time/15 seconds and on switch change
	130836	Switch Status Counter	1 time/15 seconds and on switch change
	130837	Switch Status Timer	1 time/15 seconds and on switch change
Response to Requested PGNs	126464	PGN List (Transmit and Receive)	N/A
	126996	Product Information	N/A
	126998	Configuration Information	N/A
Protocol PGNs	059392	ISO Acknowledge	N/A
	059904	ISO Request	N/A
	060928	ISO Address Claim	N/A
	065240	ISO Address Command	N/A
	126208	NMEA Request/Command/Acknowledge	N/A
Maretron Proprietary PGNs	128720	Configuration	N/A

**Electrical**

Parameter	Value	Comment
Operating Voltage	9 to 32 Volts	DC Voltage
Power Consumption	100 mA	NMEA 2000® Interface
Load Equivalence Number (LEN)	2	NMEA 2000® Spec. (1LEN = 50 mA)
Reverse Battery Protection	Yes	Indefinitely
Load Dump Protection	Yes	Energy Rated per SAE J1113

**Mechanical**

Parameter	Value	Comment
Size	3.50" x 4.20" x 2.03" (88.9mm x 106.7mm x 51.6mm)	Including Flanges for Mounting
Weight	13 oz. (368.5 g)	

**Environmental**

Parameter	Value
IEC 60945 Classification	Exposed
Degree of Protection	IP64
Operating Temperature	-25°C to 55°C
Storage Temperature	-40°C to 70°C
Relative Humidity	93%RH @40° per IEC60945-8.2
Vibration	2-13.2Hz @ ±1mm, 13.2-100Hz @ 7m/s² per IEC 60945-8.7
Solar Radiation	Ultraviolet B, A, Visible, and Infrared per IEC 60945-8.10
Corrosion (Salt Mist)	4 times 7days @ 40°C, 95%RH after 2 hour Salt Spray Per IEC 60945-8.12
Electromagnetic Emission	Conducted and Radiated Emission per IEC 60945-9
Electromagnetic Immunity	Conducted, Radiated, Supply, and ESD per IEC 60945-10
Safety Precautions	Dangerous Voltage, Electromagnetic Radio Frequency per IEC 60945-12

