

Water Detection Probes



RK23191

Stainless Steel WIF Probe

- ABS Marine Type Approved, Cert. #11-HS800012-PDA.
- UL Marine Listed, 168Y.
- Meets requirements of ISO19921 fire resistance test.
- Robust 303 stainless steel and ceramic design.
- One inch (1") hex drive body, over 3 in. (7.6 cm) long.
- 1/2"-20 straight threads with SAEJ1926 sealing design.
- FKM o-ring material for durable service life.
- Detachable Packard GT-Series connector and 36" long wiring loom.

Stainless Steel Water In Fuel (WIF) Probe

The new all-steel and ceramic water in fuel (WIF) probe was designed to meet new IMO Marine Requirements. Racor's new RK23191 water probe can be used with all of our American Bureau of Shipping (ABS) and Underwriters Laboratories, Inc. (UL) Marine products. This passive probe design has a 303 stainless steel housing which captivates a ceramic insulator and stainless probe tip. The housing features a durable plastic connector housing to attach to an external pigtail harness with yellow and black 18 AWG wires (no polarity).

Water Probes

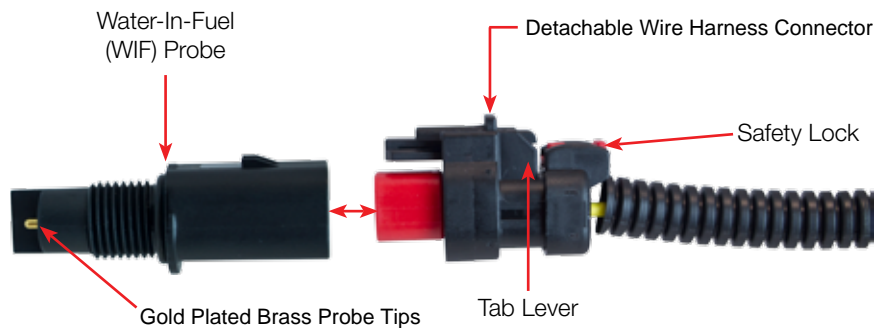
Racor offers a wide selection of water-in-fuel (WIF) detection systems, each designed for specific filter assemblies and installation requirements.

Water probes simply provide metal pin tip entry into a water collection bowl. Some contain no active electronics and require an external electronic detection module to detect water.

Electronic Detection Modules

Detection modules have internal electronics that pass a small current across special metal pins. When water bridges the pin tips, a solid state switch is activated allowing a larger current to flow to drive a light or provide a signal to an engine computer. Electronic detection modules will automatically reset once water is drained away from the probe tips.

Detailed instructions are supplied with every WIF sensor and electronic detection module.



(No longer available) (No longer available)

(No longer available)

Specifications	RK 55484	RK56235	RK56140-01	RK55617	RK30880E**	RK30880-03**	RK 30964	RK 21069
Mating Connector	Delphi Packard 12162000	Delphi Packard 12162000	Delphi Packard 12162000	N/A	Racor 22556	Yazaki 7283-7031-10	None	None
Thread Size	1/2"-20 UNF							
Volts	12 or 24	12 or 24	12	12	12 or 24	12 or 24	12 or 24	12 or 24
Probe Tips	Gold Plated Brass	Gold Plated Brass	Beryllium Copper	Beryllium Copper	Beryllium Copper	Beryllium Copper	Stainless Steel	Stainless Steel
Wire Length (L)	8.0 in. (20.3 cm)	4.0 in. (10.2 cm)	6.0 in. (15.2 cm)	8.7 in. (22.1 cm)	8.0 in. (20.3 cm)	11.0 in. (27.9 cm)	8.0 in. (20.3 cm)	8.5 in. (21.6 cm)
Internal Resistor	220K ohm	220K ohm	220K ohm	82.5K ohm	Amplifier	Amplifier	None	None
Application	Cummins	-	John Deere	Cummins	All	Hino	All	All
Output	-	-	-	-	To Ground	To Ground	-	-

** These WIF probes have a built-in water detection module, and include a remote warning lamp panel.

Water Detection Modules & Kits

Racor Water Detection Kits are available in a wide selection for various installation requirements. Under-dash, in-dash, and remote mount, these solid-state units may be used with any Racor fuel filter/water separator and water probe. They are manufactured using the highest quality materials and

are all 100% electrically tested. An electronic detection module analyzes electrical resistance at the water probe and determines if water is present. If so, the detection module operates to indicate water, based on its features listed below. All units reset automatically after water is removed (unless specified).

Caution: The water probe and detection modules work with 12 or 24 volts, direct current only and should never be wired to other brand modules or household 110 or 220 volts, alternating current. Use the guide below to find the correct detection module for your application.

Part Number	Description	Voltage	Image
RK 12870	Under-dash water detection module. Light illuminates and alarm sounds when water is detected. Water must be drained to reset light and stop alarm. Plastic enclosure measures: 1.38" square x 1.25" deep. Water probe included.	12 vdc	
RK 12871	(No longer available)	24 vdc	
RK 20725	Under-dash mount water detection module. Light only. Green 'ON' lamp illuminates with power on. Red 'DRAIN' lamp illuminates when water is detected. Initial power-up self diagnosis feature and circuit protection included. Plastic enclosure measures: 2.75" x 1" x 1.5". Water probe included.	12 vdc	
RK 20725-24	Same as above	24 vdc	
RK 20726	2" gauge-type water detection module. Light and audio. Red 'DRAIN' lamp illuminates and horn sounds when water is detected. Initial power-up self diagnosis feature and circuit protection included. Plastic case, satin black dial with white lettering. Water probe included.	12 or 24 vdc	
RK 11-1570	2" gauge-type water detector and filter restriction module. Includes pre-set vacuum switch (7 inHg), connector, and outlet adapter fitting. Red 'DRAIN' or 'CHANGE FILTER' lamp illuminate and horn sounds when water is detected. Water probe included.	12 or 24 vdc	
RK 14329	Remote detection unit sends 12 VDC hot (+) signal when an input ground signal (from a water probe or a vacuum switch—not included) is received. Must be used with a relay to power a horn or indicator lamp (if draw is over 1 amp). Plastic enclosure measures: 3" x 2.5" x .75"	12 vdc	
RK 14321	Same as above	24 vdc	
14332	Under-dash mounts same as RK 14329 but sends a ground (-) signal. Enclosure size is same as RK 20725 above.	12 vdc	
RK 20163	Vacuum Switch Kit Non-adjustable, 'Normally Open' contacts close at 7 inHg (3.4 PSI) 1/8"-27 NPT threads. For use with all models.	N/A	
RK 21030	Vacuum Switch Connector Kit Molded connector with single 18 AWG., 18" blue wire lead.	N/A	
RK30880E	Water detection electronics are built into the probe body and work with 12 or 24 volt DC systems. Water probe and detection module all in one. Includes light panel kit.	12 or 24 vdc	