

Electronic Water Detection Systems



How They Work:

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

Water Probes

Water probes simply provide metal pin tip entry into a water collection bowl. They 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.



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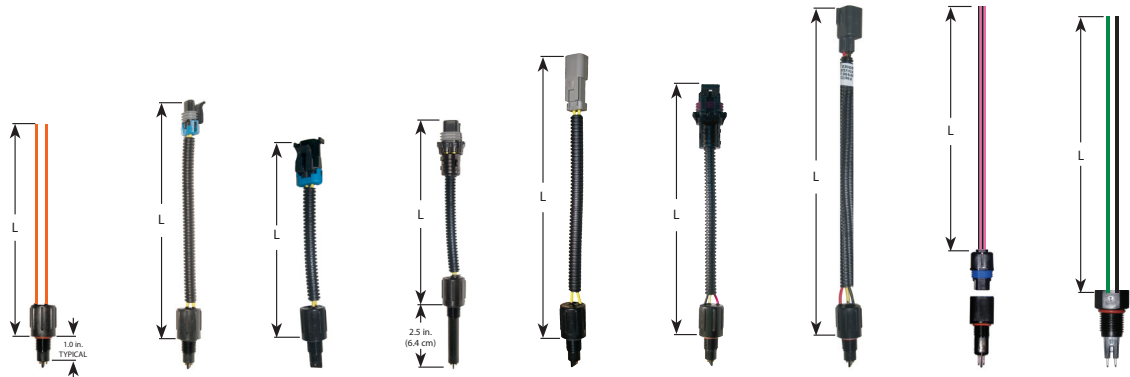
Product Features:

- 1/2"-20 UNF threads with a SAE J1926 o-ring seal design.
- Hermetically sealed to keep out moisture and fuel.
- 12 or 24 volt versions available.
- Probe tips are constructed of corrosion resistant material.
- Rugged and reliable.
- Easy to install.



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WIF Probes



Specifications	RK32262-02	RK 55484	56140	RK56140-01	RK55617	RK 30880**	RK30880-03**	RK 30964	RK 21069
Mating Connector	None	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	12 or 24	12	12	12	12 or 24	12 or 24	12 or 24	12 or 24
Probe Tips	Beryllium Copper	Gold Plated Nickel	Beryllium Copper	Beryllium Copper	Beryllium Copper	Beryllium Copper	Beryllium Copper	Stainless Steel	Stainless Steel
Wire Length (L)	7.0 in. (17.8 cm)	8.0 in. (20.3 cm)	6.0 in. (15.2 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	83K ohm	220K ohm	220K ohm	220K ohm	82.5K ohm	Amplifier	Amplifier	None	None
Application	Cummins ISC03/ISL03	Cummins	-	John Deere	Cummins	Volvo, Freightliner	Hino	All	All
Output	-	-	-	-	-	To Ground	To Ground	-	-

** These WIF probes have a built-in water detection module.

Electronic Water Detection Modules



Volts	RK 12870	RK 20725	RK 20726	RK 11-1570	RK 14329	14332
12	RK 12870	RK 20725	RK 20726	RK 11-1570	RK 14329	14332
24	RK 12871	RK 20725-24			RK 14321	Not Available
	Under-dash Module. Light and sound when water is detected. Water must be drained to reset light and stop horn. Enclosure measures: 1.38" square x 1.25" deep	Under-dash 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. Enclosure measures: 2.75" x 1" x 1.5"	2" Gauge 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.	2" Gauge Module. Includes pre-set vacuum switch (7in.Hg.), connector and outlet adapter fitting. Red 'DRAIN' or 'CHANGE FILTER' lamp illuminate and horn sounds when water is detected. Water probe is not included.	Remote Detection Module. Sends 12 or 24 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). Enclosure measures: 3" x 2.5" x .75"	Under-dash Module Same as RK14329 but sends a ground (-) signal. Enclosure size is same as RK 20725.