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AQUA GLO
 WATER
 DETECTOR

BULLETIN 86
 (1-05)

NEW AQUA GLO® SERIES V WATER DETECTOR

MEASURES WATER CONTENT OF JET FUEL
 MODELS GTP-322 & GTP-323

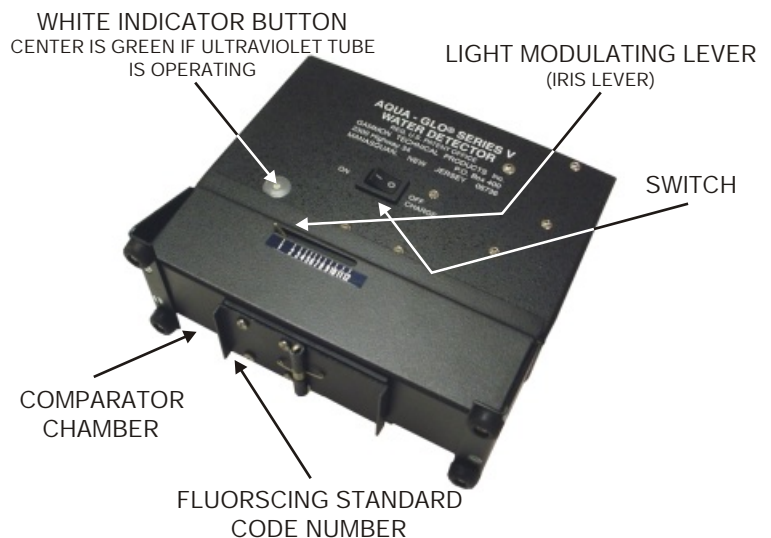
- New Automatic Power Switching external power supply as well as internal battery 120/220 volts 50-60 Hz
- Nickel Cadmium rechargeable battery.
- Fully Instrumented - to eliminate human error.
- Detects presence of free water within 1.5 ppm.
- Test completed in less than 2 minutes.
- Portable - light weight - 8 pounds
- Permanent fluorescing standard.
- Can be recalibrated in the field.



The test requires two simple steps. First, a measured sample of fuel is passed through a paper pad that is treated with sodium fluorescein on its upstream surface. Second, the pad is compared with a fluorescing standard in ultraviolet light. Water droplets that are smaller than the eye can see will cause the sodium fluorescein to fluoresce. The degree of fluorescence is greater for increasing amounts of water in the fuel.

The AQUA-GLO® Kit employs this unique approach in the determination of the degree of fluorescence (or water content). A single, permanent fluorescing standard is positioned under a photographic-type iris diaphragm which can be opened or closed to increase or decrease the amount of ultraviolet light.

To determine water content, the operator merely adjusts the diaphragm lever arm until the fluorescing standard and the test pad show equal brightness in the ultraviolet light. This balance is reached when the zero centering ammeter reads ZERO. The amount of water is read in parts per million (ppm) on the diaphragm lever arm scale which has been pre-calibrated in the factory. The scale numbers range from 1 to 12. These numbers are in parts per million (ppm) if the test sample of fuel that flowed through the pad was 500 ml. However, if water content is as great as 60 ppm, the test sample can be reduced to 100 ml. When a 100 ml sample is taken, the operating instructions explain that the scale reading must be multiplied by 5 to obtain the water content in ppm.



® Registered in U.S. Patent Office

MANUFACTURED SPECIFICALLY TO PERFORM TESTS PER ASTM METHOD D3240

The Series V Aqua-Glo® was introduced in 2005 with an entirely new power supply. This power supply is external, automatically switches to work with either 120vac or 220vac, 50/60hz..

The water detector pads that are used in the AQUA-GLO® Kit are produced in compliance with MIL-D-81248 (WP) with the exception that the diameter is 25 mm. Each pad is packaged in an air and moisture-proof envelope.

The AQUA-GLO® Kit pad holder is designed for ease in sampling. Fittings are available for several different methods of taking samples. For example, the standard fitting permits direct connection to a quick disconnect. Another fitting allows the sample to be drawn through the test pad with a syringe.

The AQUA-GLO® Kit is based on a technique developed by the U.S. Navy for accurate field determination of the free water content of jet fuels. Unlike the Navy equipment, the AQUA-GLO® Kit requires only one fluorescing standard and is instrumented to eliminate human error.

Available also in combination with our MiniMonitor Kit for Contamination Testing per ASTM Method D2276.

See Bulletin 8 for details of the MiniMonitor Kit.

COMBINATION KIT - MODEL GTP-323

In one carrying case: - Aqua-Glo® Series III Water Detector
- MiniMonitor® Contamination Tester



An outstanding feature of the AQUA-GLO® Kit is permanency of the fluorescing standard. Extreme care has been taken in perfecting a standard that will not deteriorate with age.

ORDERING INFORMATION

Aqua Glo® Series V Kit with built-in 120/ 220vac. 50-60 Hz Recharger	GTP-322
Combination Kit: Aqua Glo® Series III and MiniMonitor® with 120/ 220vac Recharger	GTP-323
Aqua Glo® unit only with power cord and standards 120/ 220vac	GTP-2855-1
Upgrade kit from Series III to Series V	GTP-9334

Parts and Accessories

Water Detector Pads (25 mm dia.) box of 50	GTP-25
Internal Battery, rechargeable, nickel cadmium	GTP-2324
Replacement Tube, ultraviolet	GTP-2380
Detector Pad Holder Assembly	GTP-191
Toggle Valve, aluminum 1/8" FNPT	GTP-8326-1
Tweezers	GTP-293
Calibrated Bottle	GTP-294
Screwdriver calibrating	GTP-765
Carrying Case for GTP- 322 and 323	GTP-761
Battery, 9 volt, for meter	GTP-892
Hose Assembly, outlet, for GTP-191	GTP-292
Fluorescing and Calibrating Standards Set	GTP-835
Power supply	GTP-9292
Color Rating Book	GTP-1074-1
Hex Nipple w/Tapered hole to fit syringe	GTP-3614
Stainless steel holder for water detector pads (25 mm)	GTP-3326
Stainless steel holder for water detector pads (37 mm)	GTP-3850

For more information on the Stainless steel holders ask for Bulletin #134