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**AQUA-GLO®
WATER
DETECTOR**

**BULLETIN 86
(04-19)**

AQUA-GLO® SERIES V WATER DETECTOR

MEASURES WATER CONTENT OF JET FUEL
MODEL NUMBERS GTP-322 & GTP-323

FEATURES

- Manufactured specifically to perform tests per ASTM Method D3240
- Automatic power switching between external power supply and 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, lightweight (8 pounds)
- Permanent fluorescing standard
- Can be recalibrated in the field

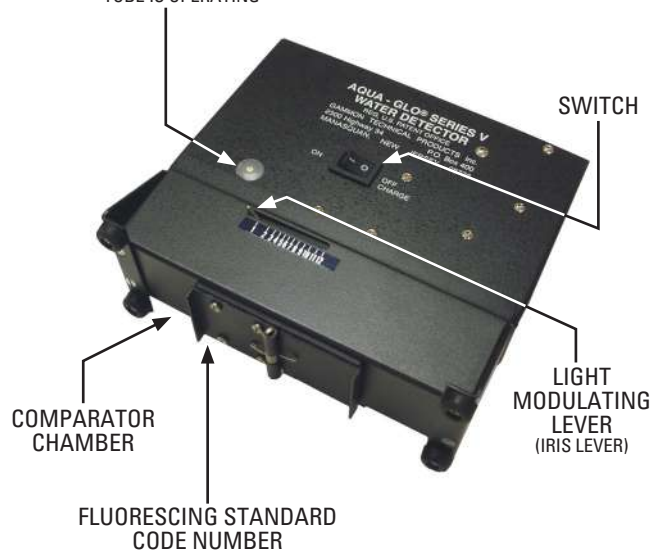


The test requires two simple steps. First, a measured sample of fuel is passed through a paper pad that is treated with sodium fluorescein on its upstream surface. Second, the pad is compared with a fluorescing standard in ultraviolet light. Water droplets that are smaller than the eye can see will cause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

WHITE INDICATOR BUTTON
CENTER IS GREEN IF ULTRAVIOLET
TUBE IS OPERATING



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

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 25mm. 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 the 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 on the MiniMonitor® Kit.

COMBINATION KIT - MODEL GTP-323

In one carrying case: Aqua-Glo® Series V Water Detector
MiniMonitor® Kit 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.

HOW TO ORDER

KITS

GTP-322	Aqua-Glo® Series V Kit with built-in 120/220 VAC 50-60 Hz power supply
GTP-322-AF	Aqua-Glo® Series V Kit with built-in 120/220 VAC 50-60 Hz power supply for the U.S. Air Force
GTP-323	Combination Kit: Aqua-Glo® Series V and MiniMonitor® with 120/220 VAC 50-60 Hz power supply
GTP-2855	Aqua-Glo® unit only with power supply and standards, 120/220 VAC
GTP-9334	Upgrade kit from Series III to Series V

PARTS AND ACCESSORIES

GTP-25	Water detector pads (25mm diameter), box of 50
GTP-2324	Internal/external battery, rechargeable, nickel cadmium
GTP-2380	Replacement tube, ultraviolet
GTP-191	Detector pad holder assembly
GTP-8326-1	Toggle valve, aluminum, 1/8" FNPT
GTP-293	Tweezers
GTP-294	Calibrated bottle
GTP-765	Screwdriver calibrating
GTP-9459	Carrying case for GTP-322 and GTP-323
GTP-892	Battery, 9 volt, for meter
GTP-292	Hose assembly, outlet, for GTP-191
GTP-835	Fluorescing and calibrated standards set
GTP-9292	Power supply
GTP-1074-1	Color rating book
GTP-3326	Stainless steel holder for water detector pads (25mm) - see Bulletin 8
GTP-3850	Stainless steel holder for water detector pads (37mm) - see Bulletin 8
GTP-9329	External battery power cable (optional)
GTP-9331	External battery charging cable (optional)
GTP-9300-12	Both external battery cables (GTP-9329 and GTP-9331)