GAMMON

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MINIMONITOR® & MULTI MINIMONITOR® KITS

BULLETIN 8 (04-18)

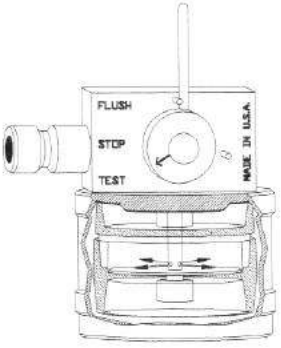
MINIMONITOR® KIT - MARK II

The Mark II version has the unique advantage of eliminating the "white spot." This photograph of a filter membrane shows how all previously manufactured test kits, regardless of the brand, make a white spot in the center if the inlet pressure is high and the fuel sample is contaminated. The jet effect causes the white spot.

In the new Mark II design, the inlet fuel to the plastic monitor is dispersed laterally to ensure a more uniform distribution of particles over the entire surface.

The MiniMonitor® Kit is used to test aviation fuel for particulate contamination using the procedures described in ASTM D2276/IP216. A measured volume of fuel is passed from a flowing pipe directly through a 0.8 micrometer membrane. The plastic monitor holding the membrane is placed in an aluminum housing. Dirt particles are caught on the membrane which can be visually color rated or weighed for a gravimetric rating.

The Mark II's lateral distribution is created by a unique discharge tube that enters the plastic monitor, as shown in this drawing. The large area of the four holes ensures that the flow rate is not affected.

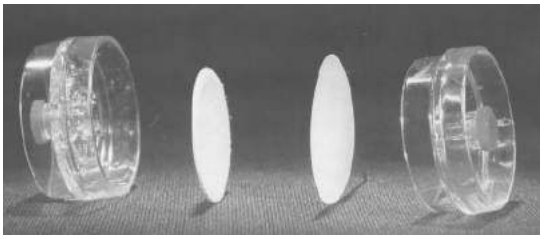


The MiniMonitor® Kit was developed by Gammon Technical Products, Inc. specifically for aircraft fuel testing with standard field monitors. This kit, including the carry case, weights only 4 pounds.

The new style of carrying case provides a cavity which accepts the assembled kit, eliminating the need to disassemble each time the apparatus is stored.

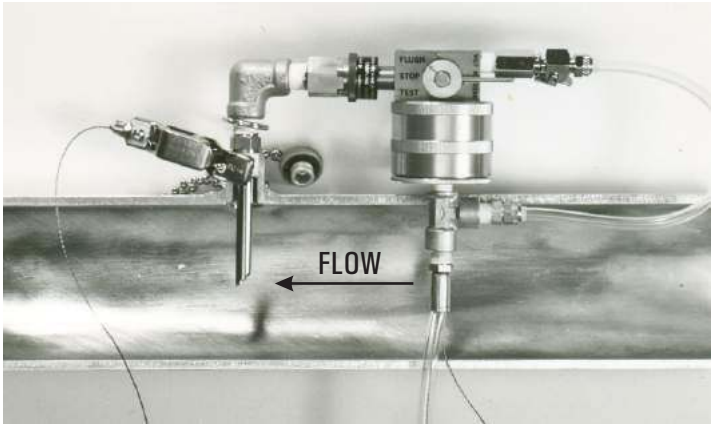
GTP-172 Mark II: Complete Test Kit
Includes: carrying case, assembled housing and selector valve, bonding and grounding hose assembly, syringe (GTP-165), sampling kit (GTP-5), tweezers (GTP-2099), color rating booklet (GTP-1074-1), six plastic monitors (GTP-1985-6), and fifteen mini envelopes (GTP-1267).

GTP-172-H: MiniMonitor® Assembly Only
Includes: housing, valve, and complete hose assembly.



MiniMonitor® equipment uses standard plastic monitors listed by ASTM for Method D2276/IP-216.

The MiniMonitor® housing includes a flushing valve located on top of the monitor with a bypass hose and fittings. Before flushing the sample connection, move the arrow located on the flushing valve handle to the STOP position. Check the connections of the bypass nose for firm seating. After the connections have been checked, move the arrow to the FLUSH position and allow one gallon (or specified volume) to collect in a measuring container. Then turn the valve to the TEST position to direct flow through the filter membrane. This test volume may be from 1 to 5 gallons depending upon contract provisions. The membrane is then rated as to its color using the color rating booklet (GTP-1074-1) included in the kit. The darker the membrane, the dirtier the fuel. Some contracts require the weight of the contaminant to be determined. The same apparatus can be used but arrangements must be made with a laboratory.



Electrical bonding is a safety requirement of ASTM Method D2276/IP216. Our Bonding and Grounding Hose Assembly clips to the metal container (not shown) and also to the pipe fitting as shown in the photograph.

GTP-1110: BONDING & GROUNDING HOSE ASSEMBLY

Static charges are developed at a very high rate when aviation turbine fuel is passed through a filter membrane. These charges develop at an even higher rate when the fuel contains anti-static additive, but they are easily carried away by electrically bonding and grounding. Our model GTP-1110 is specially designed for this purpose.

CABLE DATA: Type 304 stainless steel, 1/32" (0.79mm) diameter, 21 strands
CABLE LENGTH: 10 feet (3.0 meters)
TUBING LENGTH: 6 feet (1.8 meters)

SPECIAL ACCESSORIES FOR THE U.S. MILITARY

STAINLESS STEEL HOLDER FOR AQUA-GLO® WATER DETECTOR PADS

GTP-3326 25mm Water Detector Pads (Army)
GTP-3850 37mm Water Detector Pads (Air Force)

With holders, the Aqua-Glo test can be performed using the MiniMonitor® housing.

GTP-5808: FLEXIBLE EXTENSION TUBE

This tube was made especially for the U.S. Air Force and for customers who have sampling connections in difficult places to reach. The overall length is 10" (250mm). The quick disconnect at the left end connects to the actuator at the inlet of the MiniMonitor® housing. The actuator at the other end has the same dimensions as the one on the MiniMonitor®. The Teflon® tubing is covered by stainless steel wire braid.

MULTI MINIMONITOR® TEST KIT

IT CONNECTS TO 5 DIFFERENT TYPES OF SAMPLING CONNECTIONS

This version of the test kit is made for operators who have to take samples from sampling points that are equipped with various different types of quick disconnects. See the following page for available fitting types.

Model GTP-1172 Mark II shown

CONSIDER THESE FEATURES:

- Clearly marked selector valve
- Bypass hose with quick disconnect for flushing
- Static charge bonding and grounding hose assembly
- Uses standard plastic monitors
- Improved sealing system - squeeze controlled - Viton A
- Stainless steel and anodized aluminum wetted parts throughout

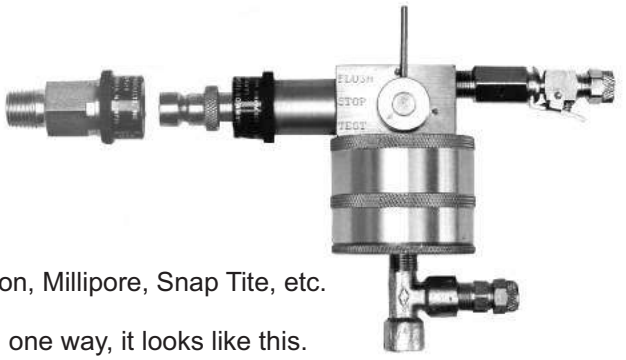
UNIQUE DOUBLE-ENDED ADAPTER
MODEL GTP-988

THE KEY FEATURE OF THE MULTI MINIMONITOR® TEST KIT

FITS:

Gammon Jet Test QD®

Reversed, it looks like this



FITS:

Gammon, Millipore, Snap Tite, etc.

Turned one way, it looks like this.

DESCRIPTION

The Multi MiniMonitor® Kit (GTP-1172A Mark II) includes a carrying case, housing, option A double-ended adapter, bypass hose quick disconnect, bypass tee, bonding and grounding hose, six plastic monitors, an instruction booklet, syringe, fifteen mini envelopes, and a color rating book (GTP-1074-1).

NOTE: For a list of items in this kit, see the first page of this bulletin. The only difference is that Kit. No. 5 is not included.

HOW TO ORDER

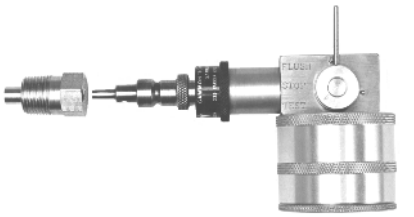
Select the options you require and add them to your order, listing them by their GTP number. The GTP-988 double-ended adapter is included in all kits. You may add additional adapters to your order if you require more than one.

GTP-988
Included

Fits Gammon QD, Millipore, Snap Tite, etc.

Also fits Gammon Jet Test QD®

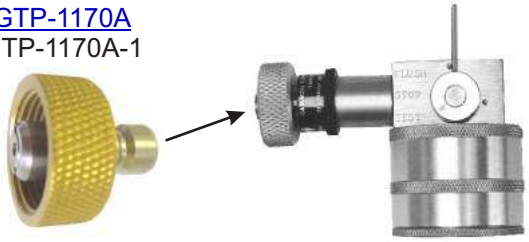
GTP-988-1



Fits Gammon QD, Millipore, Snap Tite, etc.

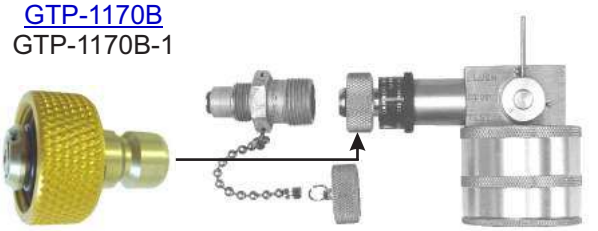
Also fits the short (S) or AH models of Gammon Jet Test QD®

GTP-1170A
GTP-1170A-1



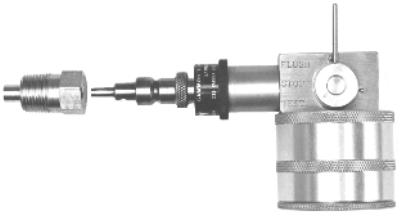
Fits Flight Refueling Ltd. Model 4127335 and 4127365 sampling adapters (Thermal Controls type)

GTP-1170B
GTP-1170B-1



Fits Flight Refueling Ltd. Model 4127320, 4127345, and 4127350 sampling adapters (Shell Int'l. type). NOTE: This fitment is the same as produced by A. Searle & Co., Stanhope Seta Ltd. and Holbek-Leba.

GTP-988-2



Fits Gammon Jet Test QD®

Also fits the short (S) or AH models of Gammon Jet Test QD®

To order only the Multi MiniMonitor® housing with bypass hose, and bonding and grounding hose, specify GTP-1172H. No carrying case or other accessories will be included. Adapters must be specified.

ACCESSORIES

GTP-1985	Box of 48 plastic monitors	GTP-992	Quick Disconnects (see Bull. 3)
GTP-1983	Box of 100 membranes and support pads	Jet Test QD® Models	Quick Disconnects (see Bull. 14)