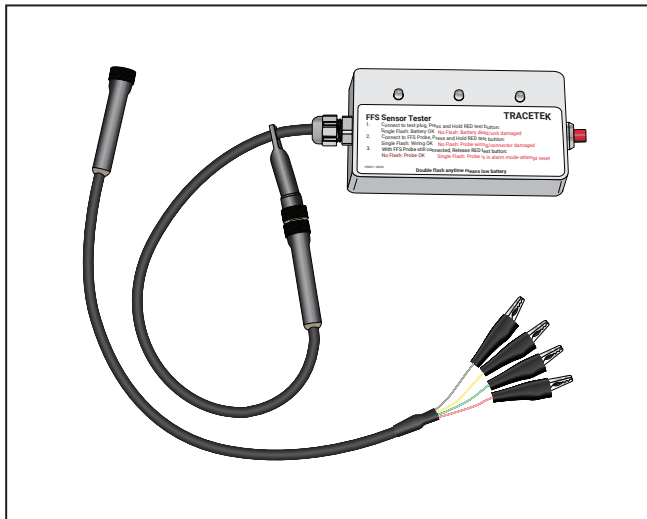


## TraceTek Test Device for TT-FFS Probe

### Operating Instructions



#### GENERAL INFORMATION

Please read these instructions and keep them in a safe place. These instructions must be followed carefully to ensure proper operation.

The Raychem TraceTek TT-FFS PROBE TESTER (Part Number P000001048) is a battery powered device that provides the capability of testing an Raychem TraceTek Fast Fuel Sensor (FFS) to determine whether it is functioning properly. Designed for use in ordinary areas, the Probe Tester is a hand held device used to evaluate the operational state of an FFS. It produces flashing signals with bright red LEDs that identify different operational conditions of the FFS.

The Probe Tester also monitors its battery voltage and produces a special DOUBLE Flash signal when the batteries need replacing.

The Probe Tester utilizes the same cable connection hardware as the FFS. When the Probe Tester is properly connected to an FFS, the Probe Tester may produce a SINGLE Flash signal, or a NO Flash signal, to indicate the operational state of the FFS. Follow the specific steps described in these Operating Instructions to determine the operational state of the FFS.

#### STORAGE

Keep the Probe Tester in a dry place that provides temperature stability in between uses. Avoid impacts that might damage the device.

#### PRODUCT CHARACTERISTICS

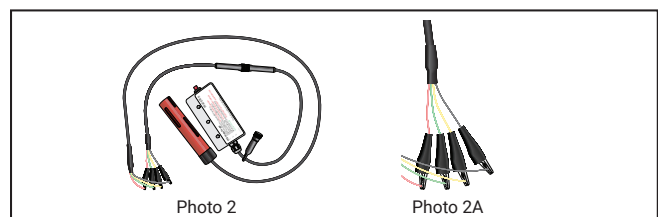
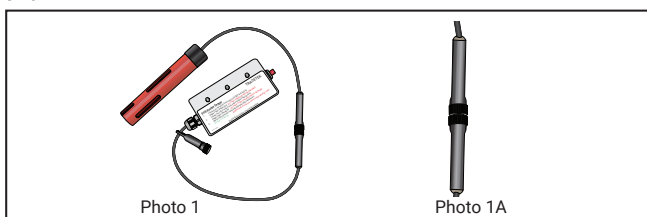
Weight	0.3 kg (0.7 lb) nominal
Light source	3 high intensity, high efficiency red LEDs
Battery information	2 "AA" Alkaline Long Life
Projected battery life	1 year - nominal
Recommended battery replacement interval	1 year or whenever low battery signal is detected
Duration of low battery signal	Minimum 30 days at 20°C (68°F)
Maximum ambient temperature	40°C (104°F)
Minimum ambient temperature	-20°C (-4°F)

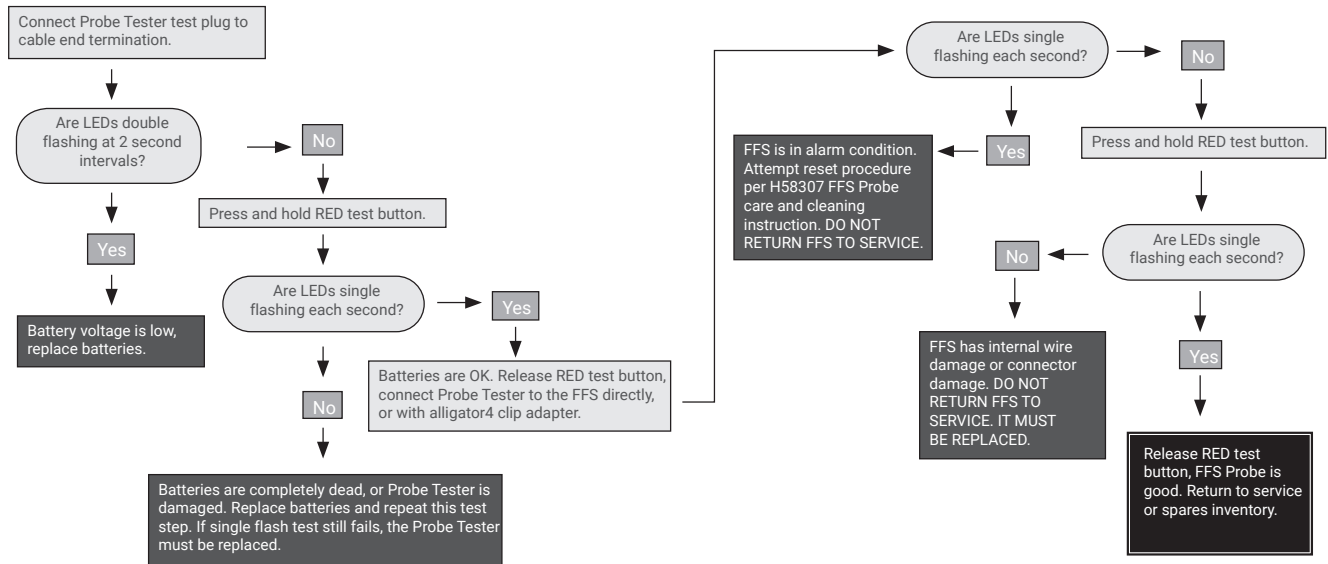
#### Operating Instructions

Follow the guidelines discussed in the flow chart sequence on page 2 to evaluate the operational state of any FFS.

**Note:** An FFS with MC series metal connector can be connected directly to the Probe Tester as shown in Photos 1 and 1A.

**Note:** An FFS without metal connector (L series) can be connected with the TT-FFS-ALLIGATOR4CLIP-MC cable end adaptor as shown in Photos 2 and 2A. The 4 colored alligator clip wires should be connected to the corresponding colored wires of the FFS.





## MAINTENANCE AND TROUBLESHOOTING

### Battery Powered Device

The Probe Tester is powered by two “AA” Alkaline Long Life batteries.

Under normal conditions, when the test plug is connected to the cable end termination, the Probe Tester will not be flashing.

If the batteries reach a low voltage condition, the Probe Tester will DOUBLE Flash at 2 second interval continuously, and maintain the DOUBLE Flash signal for about 1 month before the battery voltage drops to an unusable level. It does not matter if the test plug is connected to the cable end termination, or to a FFS, the DOUBLE Flash signal will still be produced as long as the battery voltage is low.


**Note:** If the batteries are completely dead, the Probe Tester will stop its DOUBLE Flash. The Probe Tester will not be able to signal the low battery condition, or properly evaluate the condition of an FFS.

### Battery Lifetime

Two “AA” Alkaline Long Life batteries can be expected to provide service for nominally one year. However, under extreme high and low temperature conditions, battery service life may be reduced relative to nominal conditions.

Battery lifetime also depends on how much flashing is required as part of the FFS evaluation testing.

### Battery Replacement

- The battery replacement for the Probe Tester should be performed in a work shop or other nonhazardous location.
- Place a soft towel on the work surface.
- Position the Probe Tester face down, with the LEDs resting on the soft towel.
- Loosen the four screws securing the back cover of the Probe Tester, being careful not to put excessive force on the unit, which might result in damage to the LEDs.
- Remove the back cover taking care to not lose any of the four screws. Now the black battery cover is visible in the interior of the Probe Tester.
- Loosen the small screw on the battery cover, then remove the battery cover.
- Remove the old batteries, replace with fresh batteries and verify batteries are installed correctly.
- Reposition the battery cover and tighten the small battery cover screw.
- Replace the back cover of the Probe Tester, and tighten the four screws evenly.
-  Dispose of the old batteries properly. Do not throw away the old batteries in a garbage receptacle; take them to your locally approved collection center for recycling.

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