

## MONSTER TESTER™

### USER GUIDE

Item#: HMMT

#### OVERVIEW

The Monster Tester™ is ideal for multiple readings in a fire pump test. Up to seven pressure readings can be taken from Hose Monsters® or Pitotless Nozzles® and read through a single gauge at a convenient point, such as the test header.



#### COMPONENTS

- Monster Tester™ Manifold
- Tube set – 60 ft. comprised of 6 multi-colored tubes. The tubes supplied with the Monster Tester™ are bundled for easy handling and identification.
- Pressure Gauge, 0-60 psi, 4" dial, ½ % accuracy rated, (other pressure ranges available by request)
- Twelve quick disconnect/push to connect tube fittings
- Padded carrying case to conveniently house Monster Tester™ and gauge

#### ASSEMBLY

The Monster Tester™ manifold has seven valve-inlets. The ball valves are chrome plated Teflon seated for bubble tight shut off. Each of the inlets is a 1/4" push to connect for tube connections. The Monster Tester™ and fittings are rated at a 300 PSI working pressure. The standard tube set is rated at a 175 PSI burst pressure. The tubing connectors are O-ring sealed to prevent leakage and the tubing is mechanically retained to prevent blow-out.

#### TO CONNECT TUBING TO A PITOTLESS NOZZLE®:

1. Insert the female quick disconnect coupler from the tube set into the male plug on the manifold.
2. The tube and its fittings should already be in place with the connector through the plastic ring tube fittings. If not, push the tube so that you can feel the tube is secured, the quick

disconnect fittings will simply click into place. A slight pull will tell you if the connection is secure.

### TO RELEASE TUBING:

Grasp the knurl on the connector and pull away from the manifold. To remove the tube from the fittings, push the green plastic ring inward toward the fitting. With the ring pushed in, pull outward on the tube to release it.

### TO CONNECT TUBING TO A HOSE MONSTER® W/ BUILT-IN-PITOT(HM2H)

To connect the tube set to the Hose Monster® the female quick disconnect must be removed from the screw attached to the tube.

1. First, remove the tube from the fittings.
2. Push the green plastic ring inward toward the fitting.
3. With the ring pushed in, pull outward on the tube to release it.
4. When the entire fitting is disconnected from the hose, unscrew the female quick disconnect from the screw.
5. Once removed, attach the screw back on the tube.
6. The tube can now be screwed in the Hose Monster® on the opposite side of the red handle of the built-in-pitot.

### OPERATION

- 1) Install one end of the tubing to the gauge port connections on the flow devices you are using (i.e. Hose Monsters® or Pitotless Nozzles®). Using the push to connect fittings.
- 2) Start water flow.
- 3) Vent the air from the tube sets during initial flow. You may vent air by opening an unused valve inlet on the manifold, or by using the drain cock on the gauge you are using. Once the air is removed the readings will be almost instantaneous and accurate.
- 4) Open the valve to the tube you wish to obtain readings from while keeping the other six valves closed. Only one valve at a time can be open for pressure readings.

### NOTE ON GAUGE ELEVATION RELATIVE TO FLOW DEVICES

If the gauge is at an elevation higher or lower than the flow device, then you must take this into account when determining your flow-rate. You will need to add or subtract 0.43 psi per foot of elevation difference to the indicated pressure on your gauge.

- If the pressure gauge is **above** the flow device, **add** 0.43 psi per foot of elevation difference.
- If the pressure gauge is **below** the flow device, **subtract** 0.43 psi per foot of elevation difference.

### AN EXAMPLE

During a pump test, the operator is flowing water into a Hose Monster® that is in a tank 10 feet below them. A Remote Reader tube is connected to the Hose Monster® gauge port below them. The indicated pressure on the user's gauge is 13 psi. Add 4.3 psi to the gauge reading since 0.43 psi per foot multiplied by 10 feet of elevation difference equals 4.3 psi. The new flow pressure is now 17.3 psi. Convert 17 psi to GPM by using our flow charts. (Note: Round to the nearest psi whole-number when referring to flow charts.)

### MAINTENANCE

- Do not subject the Monster Tester™ and Tube Sets to freezing temperature. Residual water in the components may expand and cause damage to the unit. Store in a heated environment.
- Do not subject the tube and fittings to a pressure higher than 300 PSI which may damage the Monster Tester™.
- Wipe down the product with a damp cloth after each use to remove dirt and debris. To reduce corrosion on brass, aluminum, or steel fittings apply WD-40 or other brand lubricant, then wipe with a rag.