

**CTRL Systems, Inc. Best Practice**

**Industry**

Commercial Buildings

**Application**

Leak Detection

**System**

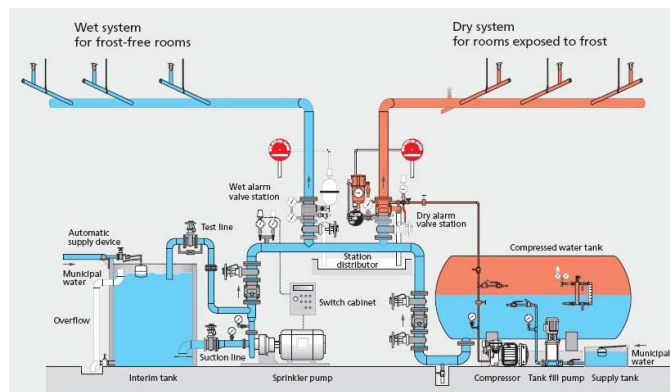
Dry Fire Sprinkler System

**Component**

Valves, Fittings, Hoses, Lines, Etc.

**Current Procedures**

A facilities maintenance technician monitors air pressure on the dry side of the piping system to ensure proper pressure is maintained to avoid an accidental release of water through the piping system. When the installed air compressor has trouble keeping up with demand of leaking air, a service company is called to perform conventional leak Check. This involves using a spray solution of soap and water looking for bubbles.



**CTRL's Sound Solution.**

1. After a short training lesson of familiarization and application. The maintenance technician selects the UL101 Receiver, Headset, Mini-Concentrator, and 1-Inch Acoustic Tip from case.
2. Attach Mini-Concentrator and plug in headset to UL101 Receiver.
3. Verify operation of UL101 in accordance with the operators' manual.
4. Turn gain switch to ½ scale (half-moon); adjust potentiometer knob between 1 and 2.
5. Begin at one end of the dry sprinkler piping system. Point the UL101 receiver in the direction of the valves, fittings, hoses, and lines under pressure and walk along while scanning with the receiver.
6. An air leak is indicated by a jump in the meter and a loud rushing sound through the headset.
7. Once an air leak is detected, pinpoint by switching the Mini-Concentrator attachment with the 1-Inch Acoustic Tip. Adjust the potentiometer down to locate the exact source of the leak.
8. Indicate the location and issue a work order for repair. Verify repairs with UL101.

**Benefit**

With a small amount of training you will be able to tell your service company exactly where a leak or leaks are. This is a time and money savings benefit to your facility budget when it comes to paying for costly diagnostics for repairs of your dry piping system.

The UL101 Ultrasonic Leak Detector is much faster and more effective at locating leaks, in dry or wet pressurized systems than conventional technologies. More leaks can be found and repaired with routine monitoring, thereby decreasing the chance for accidental release of water in the piping system.