



AIM®

Armstrong Intelligent Monitoring

Three Challenges - One System Solution

Three constant challenges that plant managers and maintenance personnel face in the operation of any system include:

- Identifying a failure - ability to immediately pinpoint what has failed, when it failed and where it failed.
- Evaluating the scope - comprehending the magnitude of the failure especially in terms of energy lost and emissions discharged to the atmosphere.
- Measuring the impact - accurately calculate the costs including wasted energy, process disruptions and plant shutdowns, safety hazards and fines levied.

AIM enables your team to tackle all three challenges with one system solution that combines a mix of methods including acoustic and temperature monitoring with integrated software through a smart wireless gateway to deliver:

- Immediate failure notification of devices such as steam traps
- Immediate notification of release to flare for emissions mitigation
- Pinpoint accuracy of failure location for fast resource deployment
- Detection of "sizzling" relief valves for proactive maintenance scheduling
- Preemptive warning of hazardous vapor release to improve worker safety

**TD5100 Temperature Monitoring**

The Armstrong Intelligent Monitoring Model TD5100 is a temperature monitoring solution that allows you to tackle critical temperature problems. The AIM® TD5100 can wirelessly monitor the skin temperature of any pipe, vessel or piece of equipment. Using non-intrusive technology combined with WirelessHART, the AIM® TD5100 is the ideal solution for any temporary or permanent 24/7 temperature monitoring.

ST5700 Steam Trap Monitoring

Armstrong Intelligent Monitoring Model ST5700 is a wireless monitoring technology that efficiently monitors and evaluates steam trap operation. The AIM® ST5700 identifies the conditions of a steam trap to determine significant problems that could put your operation at risk. The AIM® ST5700 can accurately detect potential issues such as plugged and blow thru steam traps which can result in a range of issues from failed equipment, to loss of product, to safety concerns. Immediate failure notification from the AIM® ST5700 helps identify the root cause while you minimize production losses and reduce energy consumption. Using non-intrusive technology combined with WirelessHART, the AIM® ST5700 is the ideal solution for any temporary or permanent 24/7 steam trap monitoring.

**AD5000 Acoustic Monitoring**

Armstrong Intelligent Monitoring Model AD5000 is a wireless monitoring technology designed to monitor acoustic patterns associated with leaking gasses and high pressure fluids. The AIM® AD5000 is the ideal solution to identify leaking isolation or safety relief valves. Identifying the source quickly can reduce the use of flare to burn off product and the costly fines that may be associated with it. Instant notification helps to minimize material and production loss.

Ultimately, the AD5000 can help cut down on environmental fines, reduce product recirculation and improve safety by instantly identifying the leak source. Using non-intrusive technology combined with WirelessHART, the AIM® AD5000 is the ideal solution for any temporary or permanent 24/7 acoustic monitoring.

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.