



## Series ALDS

# Automatic Leak Detection System

### Improving machine performance

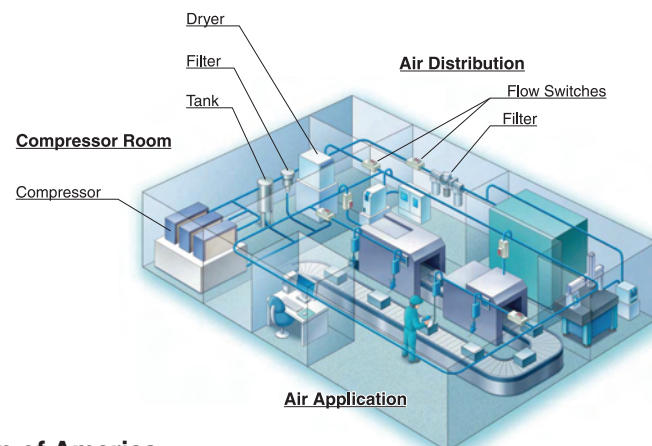
A simple low cost solution to help detect air leakage in compressed air circuits by integrating an automated leak detection system as a part of a machine that can even monitor leakage while a machine is in operation.

**Leak Detection = True Equipment Performance Capabilities**



#### By adding an ALDS to a machine you can:

- detect air leakages as and when they occur - even on a daily basis
- confirm the exact value of the leak in  $l/m$
- provide maintenance personnel with a detailed report on where the leakages are located without the need to detect individual components.
- operate and detect leakages even when the machine is in operation
- be integrated in the machine's software without the need for any external supervision system - scad, etc.

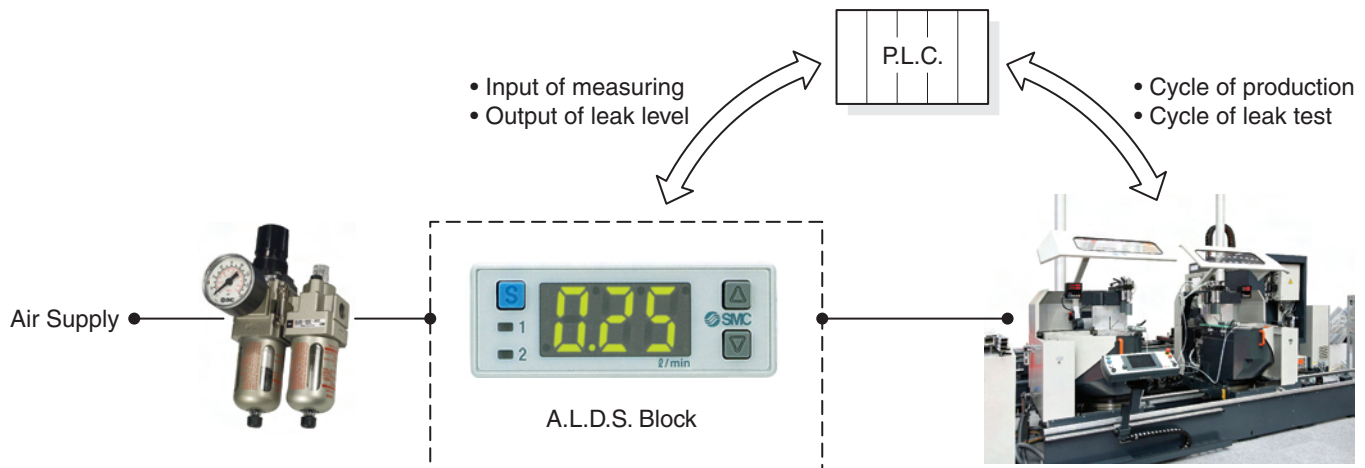


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### Basic Operating Concept:

The A.L.D.S. is based on a manifold block consisting of a standard SMC series PFM flow meter plus the introduction of a diverting valve which is installed in the machine's main air supply. The valve is operated using sequence instructions which are integrated in the machine's operating software. Using a pre-programmed "check leakage cycle," each

compressed air circuit on the machine can be individually monitored with the results checked against the previously stored records saved in a PLC. These records can then be issued as a report to the maintenance departments accordingly, thereby ensuring maximum efficiency in both air leakage detection and potential energy savings.



### Key A.L.D.S. Product: Series PFM

A key component in SMC's portfolio of energy saving products, the PFM Digital Flow Switch utilizes a microelectromechanical system (MEMS) in its construction and this latest microchip technology delivers outstanding accuracy and fast response speeds, especially when working with low flow applications.

Suitable for use with dry air, N<sub>2</sub>, Ar, and CO<sub>2</sub>, the PFM product range is extremely compact and lightweight and its easy to see digital display provides excellent visual performance at a glance. And, as the flow adjustment valve is integrated into the switch, piping installation could never be any easier, and mounting flexibility is ensured.

### Contact SMC for Details:

For more information or a demonstration on the innovative A.L.D.S. (Automated Leak Detection System) including the high performance Series PFM flow meter product range, simply contact your nearest SMC office.



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