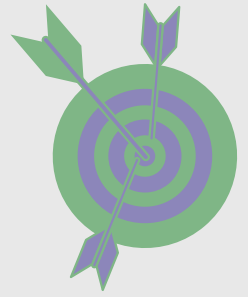


# 9 ADVANTAGES OF THERMAL MASS FLOW METERS VS. OTHER TECHNOLOGIES

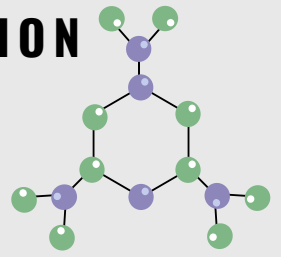
## 1 HIGH TURNDOWN RATIO

A high turndown ratio of at least 100 to 1 means the meter accurately and repeatably measures a substantially greater range of flow rates over other flowmeter technologies.



## 2 UNAFFECTED BY PRESSURE VARIATION

Since the thermal mass flow meter counts molecules, pressure variations do not impact the measurement.



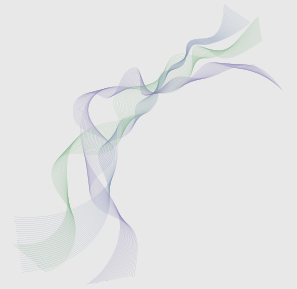
## 3 LOW PRESSURE DROP

The sensor and probe have a minimal physical obstruction in the pipe; therefore, it has an extremely low pressure drop (even measuring in inches of water).



## 4 LOW FLOW SENSITIVITY

Most thermal mass flow meters have extreme low-end sensitivity, capable of detecting even a pilot light in a natural gas line.



## 5 NO MOVING PARTS

Thermal meters have no moving parts. Instead, the technology relies on the heat transfer passing a pair of resistance temperature detectors consisting of stable platinum wound sensors protected with a SS sheath.



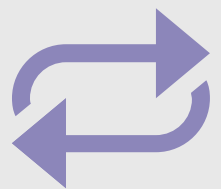
## 6 EASY TO INSTALL

The thermal flow meter is easy to install, particularly the Sage insertion models, which only require a weldolet to accept the Sage isolation valve assembly (no cutting into the pipe to insert spool sections).



## 7 EXTRAORDINARY REPEATABILITY

Thermal mass flow meters offer extraordinary repeatability and reproducibility, requiring minor maintenance over a broad flow range.



## 8 CALIBRATION VERIFICATION

Like the Sage Paramount and Prime, some thermal mass flow meters offer a simple calibration verification routine to reassure the user that the meter performs accurately without removing it from service.



## 9 ECONOMICAL

The thermal mass flow meter is economical, mainly because it eliminates the cost and installation of ancillary temperature and pressure transmitters.

