

# POWERFUL COMPETITIVE ADVANTAGES

	Servomex DF-750E	Tiger Optics LaserTrace H2O
<b>Calibration</b>	Requires zero calibration <u>EVERY WEEK</u> . OFFLINE ~ 1 HOUR.	In typical fab bulk gas monitoring, zero is verified continuously and automatically. <b>NOTE:</b> Absolute, high-resolution optical technique used to access true zero directly. ON-LINE 24/7
<i>Impact</i>	Costs result from downtime, labor and consumables required	Great stability, with continuous performance for FREE
<b>Requires Purifier</b>	Needs purifier to do calibration	No purifier required
<i>Impact</i>	<ul style="list-style-type: none"> <li>• Extra cost for consumable</li> <li>• Purifier eventually fails, giving negative values</li> <li>• If user sets software to prevent negative values, there is <b>no way</b> to know if purifier fails</li> </ul>	No extra cost, hassle or fear of failure
<b>Remote Sensor Mounting</b>	Not available	Mount sensor up to 25 meters from controller
<i>Impact</i>	Lacks flexibility for remote, hard-to-reach locations (e.g., tools)	Flexible and easy-to-monitor remotely; great for tools
<b>Requires Pump</b>	Yes, with rebuild every six – 12 months	For hydride gases only; otherwise, no need
<i>Impact</i>	Extra cost, bulk, hassles, and potential for breakage	No cost, bulk, maintenance and potential for breakage
<b>Compatible with Hydrogen</b>	Pump requires special, purged enclosure with power interlock	Measures directly in hydrogen
<i>Impact</i>	Takes more space, adds cost and requires >20 cubic feet per minute (cfm) of flow for cooling	Clean, easy, direct and safe measurement
<b>Flow Regulator</b>	Manual pressure regulator and bypass rotameter with valve	Fixed outlet pressure regulator and orifice internal to sensor, with no user adjustment
<i>Impact</i>	Time consuming and costly, with potential for mistakes: <ul style="list-style-type: none"> <li>• Pressure regulator must be manually adjusted</li> <li>• Bypass rotameter must be manually adjusted</li> <li>• Needle valve between pump and analyzer outlet must be manually adjusted</li> <li>• Each background gas requires a different pressure setting, which can be difficult to adjust</li> </ul>	Easy, automatic and safe: <ul style="list-style-type: none"> <li>• Automatically set</li> <li>• No human intervention required</li> <li>• Components internal to system</li> </ul>
<b>Sample Gas Compatibility</b>	N2, Ar, O2, He, and H2	N2, Ar, O2, He, H2, Cl2, HCl, HBr, CDA, and others
<i>Impact</i>	Limits usage	Wide usage, highly versatile
<b>Response to upset</b>	Close to 1 HOUR	Under FIVE MINUTES
<i>Impact</i>	Time is money (lost).	Fast recovery saves money, reduces down time, and enhances process control