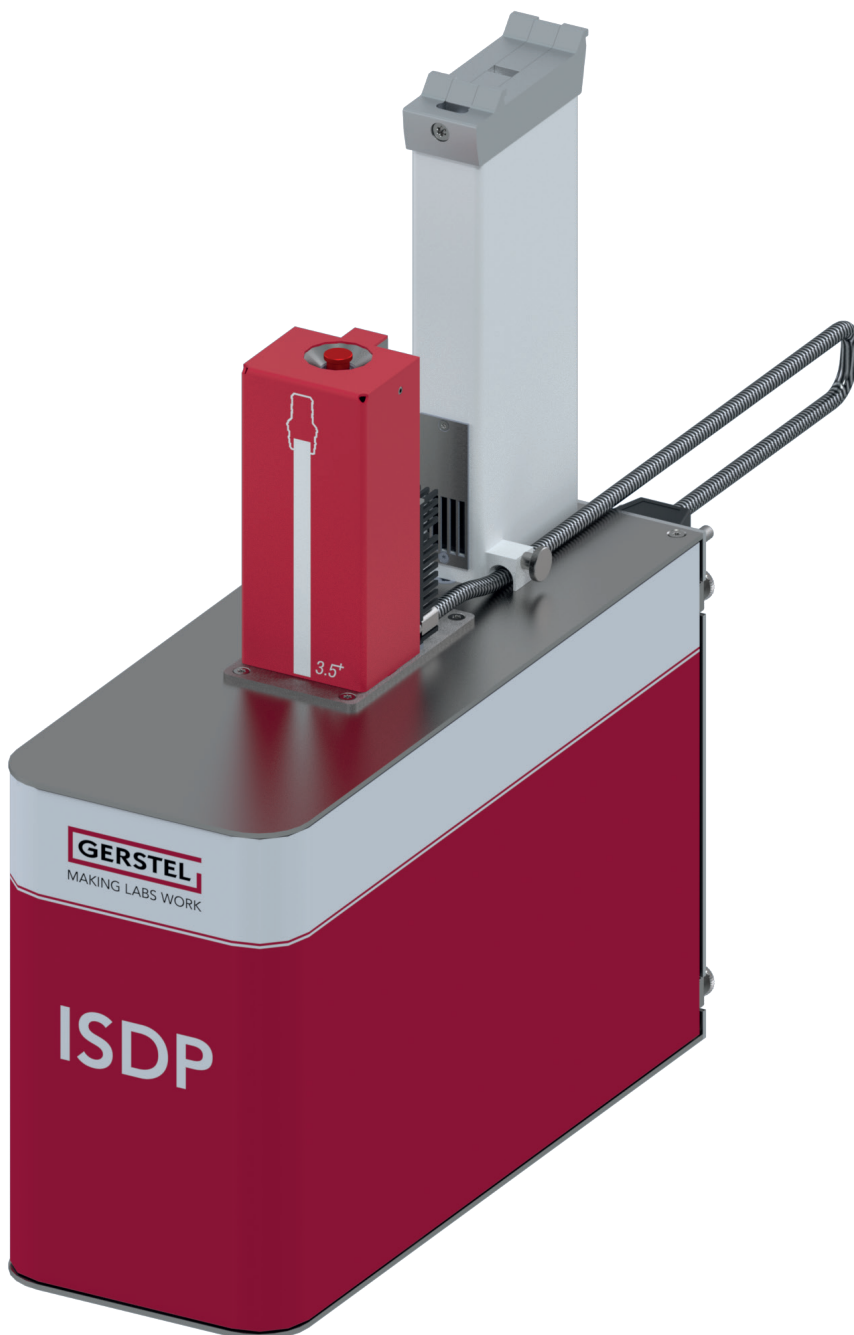




Internal Standard and Dry Purge ISDP

Compliance and Reliability for your Air Analysis Workflow



Environment



The GERSTEL ISDP provides precise, reproducible, and fully automated addition of gaseous internal standards using GERSTEL TD 3.5+ tubes and other 3.5" tubes delivered via a high precision regulator and a fixed volume loop. The addition of gaseous internal standards via the ISDP is often recommended in methods for air analysis, such as US EPA TO-17. In addition to adding internal standards, the GERSTEL ISDP also uses a mass flow controller for precise and reproducible dry purging of the tube in the sampling direction to remove water from humid air samples.

Features and benefits of the GERSTEL ISDP:

Spiking with gaseous internal standards

- **Automated spiking of gaseous standards:**
Our system allows for the easy, precise, and reproducible spiking using a valve and loop with a high precision, built-in gas regulator.
- **Easy handling – Plug & Play:**
By using electronic flow control, spiking and dry purging are fully automated and controlled by the TD method.
- **Modern Approach:**
Spike and Dry Purge tubes with electronic controls, without time-consuming manual adjustment of pressure regulators or needle valves.
- **Method compliance:**
Spike your TD tubes with gaseous internal standards as recommended or required by many standard air analysis methods, such as U.S. EPA TO-17.
- **Spiking in sampling direction either just before analysis or in batch mode:**
Internal standards are added to the tube in the same direction as they analytes were, for consistency and improved recovery.

Dry Purging

- **Fast and efficient drying:**
Remove water from high humidity samples without losing analytes.
- **Prep-ahead:**
Spike and dry purge one sample while another is running to increase your workflow's throughput.
- **Reliable and Repeatable drying:**
Using calibrated, mass flow controlled purge gas flows ensures the same volumes all gases are added, run to run, instrument to instrument.

Fully Method Compliant:

- Fully compliant with internal standard parameters recommended in U.S. EPA Method TO-17 and other related methods

Automate your Thermal Desorption analysis with our TD Core system and GERSTEL ISDP to eliminate the last and most annoying step of your workflow!



MAKING LABS WORK

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