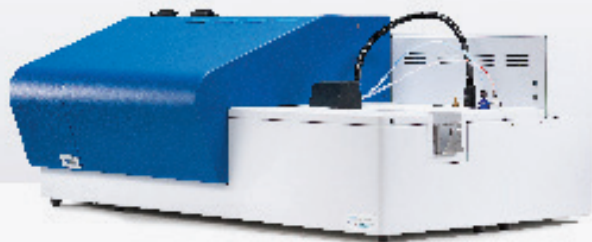


Reliable, fast and accurate
Total Sulfur analysis with enhanced
application versatility

The TSHR Total Sulfur Analyzer, model TS 6000, is the ideal solution for both research and routine applications with excellent modularity and delivers accurate total sulfur data. The TS 6000 incorporates a high-end pulsed UV-Fluorescence detector which provides superior stability, low detection limits and exceptional linearity in compliance with stringent regulatory methods.



The sample is introduced by a fully integrated automatic boat/syringe driver, into a heated oxygen free environment to ensure a complete vaporization of the sample. The carrier gas ensures that the vaporized sample will transfer into the combustion zone where oxygen will be added to complete the oxidation of the sample. After the dual zone combustion stage, the gasses go through a permapure dryer tube where all moisture and other potential interferences are removed.

The conditioned combustion gasses will flow towards the UV-Fluorescence detector where a Xenon flashlamp pulsates UV light which excites the SO₂ molecules. During decay to lower energy states, UV light is emitted, and detected by the photomultiplier tube. The UV light emission intensity is directly proportional to the concentration of total sulfur present in the sample.

The TS 6000 can analyze low and high boiling liquids, solids and LPG/Gas samples and fully complies with ASTM, DIN, ISO, IP and CEN regulatory methods.

Key advantages
High performance pulsed UV-Fluorescence detector
Robust and modular design
Boat cooling option for challenging sample matrices
Optional HR 7000 Liquid autosampler for high sample throughput



