

## TSHR introduces the new generation of Total Sulfur analysers for today's and tomorrow requirements

# TS 7000

The best solution for environmental and petrochemical application challenges. Analyse the most extensive range of sample matrix (Gas, LPG and Liquid) with respect to international standards. All in combination with the new user friendly and intuitive Athena software.

### TS 7000

The TSHR TS 7000 analyzer incorporates a high-end pulsed UV fluorescence detector which provides superior stability and detection limits. Combined with excellent uptime, matrix independence, exceptional linearity and enhanced performance, the TS 7000 is the ideal solution for both demanding and routine applications.

#### The TS 7000 is fully compliant with the following ASTM methods:

ASTM D5453, ASTM D6667, ASTM D7183

#### Instrument Highlights:

Reliability:	The 5 years furnace life-time (compared to the standard 2 year offered by competitors) provides continuous productivity.
Performance:	Delivers low detection limits for when sensitivity matters.
Automation:	The TS 7000 will be delivered with the HR 7000 liquids auto sampler.
Versatility:	Easily analyzes almost any sample type and concentration - from 20 ppb to 5000 pp.

Total Sulfur analysis is making the future a clean place. As the full environmental impact of greenhouse gas emissions becomes apparent, regulatory agencies such as the U.S. EPA are spearheading dramatic sulfur level restrictions in motor fuels. Since 2006, the allowed sulfur content of diesel fuel had been reduced from 500 ppm to 15 ppm within the United States. These initiatives are also being implemented by other industrialized nations, particularly within the European Union and Asia Pacific region. There is now a clear trend towards more stringent limits on the sulfur content of motor fuels.

#### Also available:

The TSHR TN/TS 7000 Analyzer:

Combine the power of the TN 7000 and TS 7000 analyzers in one powerful instrument for a broader analytical range. Perform simultaneous Total Nitrogen and Total Sulfur analyses easily and productively whilst using less laboratory space.



**ANALYTICAL SPECIFICATIONS**

<b>Parameter</b>	<b>TS LIQUIDS</b>
<i>Module</i>	Liquids organic
<i>Sample matrix</i>	Light hydrocarbons
<i>Quantity of sample</i>	1 - 100 µL
<i>Analysis time</i>	3 - 6 mins
<i>Working range</i>	30 ppb - 10.000 ppm
<i>RSD</i>	< 5%
<i>Regulatory compliance</i>	ASTM, IP, UOP, ISO

**TECHNICAL SPECIFICATIONS:**

<b>Parameter</b>	<b>TS 7000</b>
<i>Furnace Voltage</i>	2 x 24 V, 50/60 Hz
<i>Furnace Power</i>	2 x 300 W
<i>Furnace Temperature Sensor</i>	2 x Ni-Cr/Ni
<i>Furnace configuration</i>	Dual temperature controlled
<i>Furnace Temperature</i>	1250 °C Max
<i>Type of Analyses</i>	Total Sulphur
<i>Detection Principle</i>	UV fluorescence
<i>PC operating system</i>	Windows 7 or higher
<i>Computer</i>	Intel Core i3 / AMD Phenom or better
<i>Software</i>	Athena
<i>Optional accessories</i>	Gas Injection Module

**Facility Requirments**

<i>Voltage</i>	115/230 V, 50/60 Hz
<i>Power</i>	1200W
<i>Gas connector</i>	1/8" swagelok
<i>Gasses</i>	O <sub>2</sub> (99,6%) medical grade 2.6 Ar or He (99,998%) technical grade 4.8
<i>Gas pressure</i>	2 - 3 Bar (30-45 psi)
<i>Ambient temperature</i>	5 - 35 °C (41 - 95 °F)

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