



## ON-LINE Process Analyzers

### ADVANTAGES:

- **Reduce give-away**
- **Precise measurement**
- **Sensitivity from 250 ppb to 3 percent levels**
- **Excellent reproducibility**
- **Cycle time from 1 minute**
- **Multiple configurations**
- **Runs on air or oxygen**
- **World-wide service and support**

### 6000 & 6200 Series

**A**ntek's process analyzers provide **field proven reliability** to meet future and present government regulations for sulfur analysis in gas or liquid samples. With state and federal regulations calling for lower sulfur levels in many petroleum products, the 6000–6200 Series provide solutions for monitoring sulfur at various stages of production and blending.

Designed for the harsh environments of industrial and process applications in hazardous areas, these rugged analyzers feature **dual-stream and dual-range analyses** and offer **excellent reproducibility and linearity** with a fast response time. For especially time-critical analysis, the High Speed Sulfur (HSS) model can deliver **results in under a minute**, every minute.

With an optional total nitrogen detector, both analyzers can perform **simultaneous sulfur and nitrogen analyses**.

Enhanced communication ensures real-time results, delivering determinations from ppb to percent levels. Patented Pyro-chemiluminescent™ and Pyro UVF technology ensure low maintenance and simple operation without sacrificing accuracy or precision.

Models are also available for applications such as engine exhaust, carbon dioxide, water/wastewater and other areas.

### APPLICATIONS:

## SULFUR & NITROGEN

DIESEL  
GAS OILS  
GASOLINE  
KEROSENE  
LPG  
NAPHTHA  
NATURAL GAS  
AND OTHER GASES AND LIQUIDS

### METHODS:

**ASTM D 4629**  
**ASTM D 5453**  
**ASTM D 6667**  
**DIN 38409**

# ANTEK 6000 & 6200 SULFUR PROCESS ANALYZERS

Fast, precise, continuous dual stream – runs on air or oxygen

SPECIFICATIONS	6000 Series	6200 Series
<b>Standard Test Methods</b>	Sulfur: ASTM D 5453, D 6667; Pyro-flourescence™ Nitrogen: ASTM D 4629, DIN 38409, Pyro-chemiluminescence™	Sulfur: ASTM D 5453, D 6667; Pyro-flourescence™ Nitrogen: ASTM D 4629, DIN 38409, Pyro-chemiluminescence™
<b>Performance</b>		
Analytical Range	250 ppb to percent levels; <b>HSS</b> Series: lower detection limit of 1ppm	Lower Detection limit: 250 ppb to percent levels <b>HSS</b> Series: lower detection limit of 1ppm
Accuracy	within <1% of full scale*	within <1% of full scale*
Precision	<1% of full scale*	<1% of full scale*
Analysis Time	1 minute (analysis over 1000 ppm may take longer)	1 minute (analysis over 1000 ppm may lake longer)
Cycle Time	as low as 2½ minutes, dependent on application <b>HSS</b> Series: 1 minute	as low as 2½ minutes, dependent on application <b>HSS</b> Series: 1 minute
Ambient Temperature	32–105°F (0–40°C), extreme conditions may require temperature conditioning	32–105°F (0–40°C), extreme conditions may require temperature conditioning
<b>Communication</b>		
Signal Output	Isolated 4-20mA Digital Status Control Optional RS 232 / 485 modbus RTU; optional ethernet	Isolated 4-20mA Digital Status Control Standard RS 232 / 485 modbus RTU; optional ethernet
MMI Interface	Manual controls	Windows-style, magnetic touchscreen
<b>Utilities</b>		
Carrier Gas	Argon or Nitrogen (99.975% regulated to 35 psig) typical flow rate: 350 cc/min	Argon or Nitrogen (99.975% regulated to 50 psig) typical flow rate: 350 cc/min
Combustion Gas	Air** or Oxgen (99.975% regulated to 35 psig) typical flow rate: 400 cc/mm	Air** or Oxgen (99.975% regulated to 50 psig) typical flow rate: 400 cc/mm
Pneumatic Air	Instrument grade air at 80 psig	Instrument grade air at 100 psig
Plant Air	Clean, dry particle free for purge; to 80–100 psi	Clean, dry particle free for purge; to 80–100 psi
Electrical	110–240 v /60 Hz/1500 w /20A; 220 v /50 Hz/1500 w/10A	110–240 v /60 Hz/1500 w /20A; 220 v /50 Hz/1500 w/10A
<b>Available Enclosures</b>	NEMA 4 or NEMA 12	NEMA 4 or NEMA 12
<b>Available Certifications</b>	Atex, CE, CSA / NRTL, NEC	Atex, CE, CSA / NRTL, NEC
<b>Available Classifications</b>	Class 1 Div. 1 Groups B,C and D; Y purge Class 1 Div. 2 Groups B,C and D; Z purge EEx p [ ia ] IIC T4 (C 6000)	Class 1 Div. 1 Groups B,C and D; Y purge Class 1 Div. 2 Groups B,C and D; Z purge EEx p ia IIC T4 (C 6000)
<b>Dimensions &amp; Weight</b>	WxDxH: 77.5 x 76.2 x 175.3 cm (30.5 x 30 x 69 inches); 152 kg (335 lbs)	WxDxH: 66.04 x 76.2 x 114.3 cm (26 x 30 x 45 inches); 181.4 Kg (400 lbs)
* Full scale range of 20 ppm or greater    ** Specs listed are with O <sub>2</sub> gas as combustion gas		
<b>OPTIONS</b>		
Sample Conditioning System Analyzer	Recommended AC or Vortex	Recommended Vortex

Due to continuing product development, specifications subject to change at any time without notice.

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