

MODEL AGA 961 CE

ACID GAS ANALYZER SYSTEM
FOR CLAUS SULPHUR RECOVERY UNITS
TO ANALYZE THE H₂S -CONCENTRATION



UV-spectrophotometer

Ideal for:

- Inlet H₂S measurement
- Feed forward control to bias the main air ratio controller

General:

- Low installation cost
- Continuous, accurate, reliable
- No expansive shelter required
- User and service friendly modular design

Sample System:

- Reliable and trouble free
- Sample Lines connect the analyzer with sample and vent point
- Hermetically separated from electronics/ optics (fibre coupled)

Spectrophotometer:

- Full spectrum analyses with high wavelength resolution
- Excellent cross-interference compensation for high accuracy measurements under real process conditions
- High linearity; Wide dynamic range
- Extreme over range capability
- No moving parts, no optical filters
- Easy handling due to self explaining display
- Extensive self diagnostic built in

Technical Data

Electrical Classification	EEx p ib (ia) m e IIB T3 Cert.No.: TÜV 00 ATEX 1616 or	
	General Purpose according IEC/VDE	
Power Supply	1/N/PE ~ 50/60 Hz 230 V or 115 V	
Power Consumption	1200 Watt	
Protection	IP 65 according IEC 529 DIN 40 050	
Instrument air or another inert gas	Pressure: 5.5 ... 7 barg 550 ... 700 kPa	Flow: 3,4 m³/h normal 25 m³/h at short intervals
Dew point -40 °C (-40 °F)	To comply with ANSI/ISA S7 - 3 - 1975 R/1981	
Steam Supply	3.5 ... 4.5 barg for sample line heat trace	
SIGNAL OUTPUTS		
Analog	Two outputs 4 ... 20 mA, updated once per second, isolated to 250 V _{rms} , self- or loop powered, load < 1000 Ω, Output signal linear to concentration: 1. Hydrogen Sulphide H ₂ S (track & hold) 0 ... 5 to 0 ... 100 vol % 2. Hydrogen Sulphide H ₂ S (live) 0 ... 5 to 0 ... 100 vol % :	
Digital	Potential free SPDT relay contacts. Isolated to 250 V _{rms} The operational status outputs: STATUS (Fault/Normal) MODE (Calibrate/Run) CONTROL (Manual/Auto)	
Display	Flat Paned Industrial PC c/w 12" TFT screen	
Material in sample contact	Stainless steel, high purity aluminum or PTFE	
Source	Highly stable deuterium broad band lamp	
Detector	Spectrometer with a 2048 element CCD array detector	
Accuracy	± 2 % H ₂ S F.S.	
Speed of response T ₉₀	Typical 3 seconds w/o sample line delay	
Warm up time	< 90 minutes	
Repeatability	± 2.0 % F.S.	
Sensitivity	H ₂ S – reading ± 2.0 % F. S.	SO ₂ – reading ± 2.0 % F.S.
Zero drift	0.25 % F.S. in 24 hours Based on Auto Zero every four hours.	
Calibration	H ₂ S output is factory calibrated. High purity N ₂ for Zero required	
Sample flow	80 Liter/h	
Sample transport	Differential pressure between sample and vent point	
Weight	140 kg	

This Analyzer is based on BRIMSTONE Technology.