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Application Questionnaire for Brimstone Analyzer

- Model 942-TG, Tail Gas
- Model 961-AG, H₂S Acid Gas
- Model 991-CEM, Continuous Emission Monitoring
- Model 231-SGX, Stack Gas
- Model 941-LS, Liquid Sulfur (Lab Equipment)

Customer:

Plant:

Location:

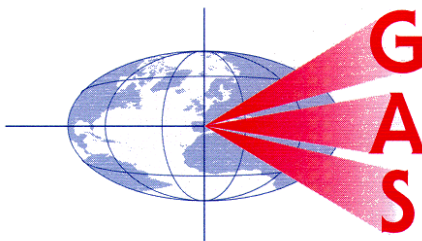
Contact Name:

Title:

Telephone Number:

Fax Number:

Email Address:



1. System Configuration This applies to the 942-TGX only

The standard configuration is with the sample handling system and the control cabinet mounted side by side above the sample point with a vertical probe insertion.

Contact the factory if an alternate configuration is required. An extended delivery time may be required.

2. Process This applies to the 942-TGX only

Conventional Modified Claus

SCOT

BSRP

SuperClaus

Oxygen Enrichment

Other (Please specify) _____

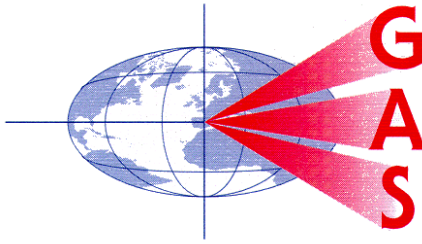
3. Sample Point This applies to the 942-TGX only

Where in the process will the sample point be located? (Example: tail gas line, between third condenser and tail gas clean up, etc.)

Tail Gas Sample Data

Composition

	Normal		Max		Others		
H ₂ S	_____	mole %	_____		_____	mole %	
SO ₂	_____	mole %	_____		_____	mole %	
H ₂ O	_____	mole %			_____	mole %	
COS	_____	mole %			_____	mole %	
CS ₂	_____	mole %					
Unusual Components or Contaminants:			Pressure (gauge)	_____	PSIG	_____	KPa
_____			Temperature	_____	°F	_____	°C



Acid Gas Sample Data

Composition		Others	
H ₂ S	_____ mole %	_____	_____ mole %
H ₂ O	_____ mole %	_____	_____ mole %
NH ₃	_____ mole %	_____	_____ mole %
Cl	_____ mole %		
Unusual Components or Contaminants: _____		Pressure (gauge)	_____ PSIG _____ KPa
_____		Temperature	_____ °F _____ °C

Preferred Analyzer Range: _____		0 to _____	

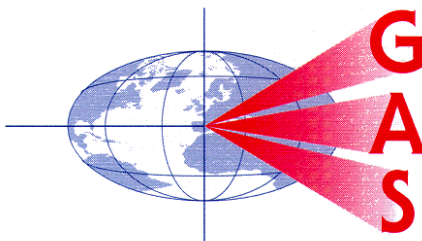
Stack Gas Sample Data

Composition		Normal		
	Normal	Max		
SO ₂	_____	_____	NH ₃	_____
NO _x	_____	_____	HCl	_____
H ₂ O	_____		O ₂	_____
CO ₂	_____		N ₂	_____
CO	_____		Particulate	_____
Unusual Components or Contaminants: _____		Pressure	_____ mmHg _____ inHg	
_____		Temperature	_____ °F _____ °C	
Analyzer Location _____		On Stack	_____ At Grade	

4. Area Classification

What is the electrical classification in the area where the analyzer will be installed?

- General Purpose
- Hazardous Class I, Division 2, Groups C&D T3 only. 991-CEM SCU is General Purpose only
 - Class _____
 - Division _____
 - Group _____



5. Ambient Conditions

Temperature Min _____ °C Max _____ °C

Barometric Pressure _____ MmHg

Plant Elevation _____ m

Relative Humidity Min _____ % Max _____ %

Other (ie. Sandstorms, Hurricanes etc) _____

Exposure to Direct Sun _____ %

Existing Shelter _____ Yes _____ No

If there is no existing shelter, the end user will be required to provide a sun shade to limit exposure to the direct sun and weather.

6. Utilities Required These apply to the 942-TGX only. Utilities required are model specific.

Electrical (Configuration may be changed on site)

Dual Power Circuits

UPS: 120/240 V, 50/60 Hz, Single Phase, 600 W

Commercial: 120/240 V, 50/60 Hz, Single Phase, 550 W

Single Power Circuit

UPS: 120/240 V, 50/60 Hz, Single Phase, 1150 W

Steam

Sample Handling Oven: 140 to 200 psig

Nozzle: 40 to 50 psig

Instrument Air (Must comply with ANSI/ISA S7-3-1975 R (1981))

Sample System: Aspirator Drive, Zero, Condenser (Nitrogen may be used)

Delivery Pressure: 80 to 115 psig

Flow Rate: 2 SCFM

Control Cabinet: Purge and Cooling

Delivery Pressure: 80 to 115 psig

Flow Rate: up to 20 SCFM