

Environmental Monitoring Questionnaire (1/5)

Process & Environmental

Customer / Project

Company	_____	Date	_____
Project	_____	Phone	_____
Plant Type	_____	Fax	_____
Fuel	_____	Email	_____
Contact	_____	Order No.	_____

Description of the Plant

Measured Components

Measuring range		Additional Information	
Stack gas temperature	_____ °C		
Stack gas pressure	_____ hPa	mm H ₂ O	
NO _x	_____ ppm	mg/m ³ NO	mg/m ³ NO ₂
SO ₂	_____ ppm	mg/m ³	
CO	_____ ppm	mg/m ³	
CO ₂	_____ Vol.%		
O ₂	_____ Vol.%		
HCl	_____ ppm	mg/m ³	
HF	_____ ppm	mg/m ³	
Hg	_____ ppm	mg/m ³	
NH ₃	_____ ppm	mg/m ³	
H ₂ O	_____ Vol.%	g/m ³	
_____	_____		
_____	_____		

Dust concentration*	Measuring range 0... _____ mg/m ³
	Max. emission value _____ mg/m ³ acc. to authority & regulations
Opacity	Measuring range 0... _____ % Opacity
Gas velocity	Measuring range 0... _____ m/s

Temperature sensor required Pressure sensor for calculation of standard flow Nm³/h required

Flow measurement with EM-F 5000:

ΔP transducer mounted on probe hose connection Counter support: yes no

Total mercury* Measuring range 0... _____ μg/m³

Max. emission value _____ μg/m³ acc. to authority & regulations

* Needs reference calibration performed by accredited institute (if required)

Environmental Monitoring Questionnaire (2/5)

Process & Environmental

Plant Details

Type of sample gas: Flue (stack) gas Process gas Other _____
 Fuel: Gas Oil Coal Waste Other _____

Certification

MCert GOST US EPA EU standard EN15267/14181 Other _____

Cabinet Details

Voltage 230 V 115 V 400 V
 Frequency 50 Hz 60 Hz
 Phase 1-phase + N 2-phase + N 3-phase + N Other _____

Extractive gas sampling

Requested length of sample line: _____ m

Location of cabinet: indoor outdoor hazardous area (classification): _____

Cabinet dimensions: _____ mm x _____ mm x _____ mm Calibration through: probe
 Cabinet protection class: IP _____ analyser
 Cabinet socket: 10 cm 20 cm without
 Container needed (_____ mm x _____ mm x _____ mm) Purge of probe: yes no
 Container existing (_____ mm x _____ mm x _____ mm)
 Air condition: wall mounted roof mounted Zero calibration: ambient air
 Heating N₂ – gas cylinder
 Fan
 Thermal isolation of walls, roof and the door O₂ Span calibration: ambient air
 Eyebolts for crane transportation O₂ – gas cylinder

Alarm & Status contacts

(Normally open / closed)

System failure analyser	NO	NC	Gas cylinders amount: 1 (mixed gas)
Maintenance	NO	NC	_____ (separate: _____)
Calibration	NO	NC	4 – 20 mA outputs: signal multiplier
Probe alarm	NO	NC	corrected value
Hose alarm	NO	NC	signal hold
Cooler alarm	NO	NC	(during maintenance)
Flow alarm	NO	NC	signal hold
Drain alarm	NO	NC	(during calibration)
_____	NO	NC	

Environmental Monitoring Questionnaire (3/5)

Process & Environmental

Standard Plant Conditions

	min.	avg.	max.		
Ambient temperature	_____	_____	_____	°C	
Stack gas temperature	_____	_____	_____	°C	
Stack gas pressure	_____	_____	_____	hPa	mm H ₂ O
Water in stack gas	_____	_____	_____	Vol.%	g/m ³
Water dew point	_____	_____	_____	°C	
Acid dew point	_____	_____	_____	°C	
Stack gas velocity	_____	_____	_____	m ³ /h	Nm ³ /h
Stack gas volume	_____	_____	_____	kg/s	kg/h
Stack gas quantity	_____	_____	_____	ppm	mg/m ³
Standard gas density	_____	_____	_____	ppm	mg/m ³
Dust	_____	_____	_____	ppm	mg/m ³
Particle size	_____	_____	_____	µm	
SO ₂	_____	_____	_____	ppm	mg/m ³
NO _x	_____	_____	_____	ppm	mg/m ³
CO	_____	_____	_____	ppm	mg/m ³
CO ₂	_____	_____	_____	ppm	mg/m ³
O ₂	_____	_____	_____	Vol.%	
HF	_____	_____	_____	ppm	mg/m ³
Hg	_____	_____	_____	ppm	mg/m ³
NH ₃	_____	_____	_____	ppm	mg/m ³
HCl	_____	_____	_____	ppm	mg/m ³

Additional Information

Cabinet view

8	FRONT	
6	ROOF	4.07.597.1
7		
6		
6		
4	RIGHT	HORIBA GmbH Kopernikstraße 5 A-3930 Tulln Austria
3	LEFT	
2		
1		
0		

1 SAMPLE GAS INLET
(Φ 40mm or M63)

2 SAMPLE GAS OUTLET

3 CABLES INLET

4 CALIBRATION GAS INLET

5 CONDENSATE OUTLET

6 FAN

7 OUTLET FILTER

8 AIR CONDITION

* Please mark the position of holes (see the list above)

8		
6		4.07.597.1
7		
6		
6		
4	HORIBA GmbH Kopernikstraße 5 A-3930 Tulln Austria	
3		
2		
1		
0		