



Questionnaire for Analyzer Systems

For the technical construction of a measuring system, the information of this questionnaire is essential. Only accurate and sufficient information will result into a faultless analyser system. For each different application, a separate questionnaire has to be completed.

Client:

Address, country:

Contact person:

Department:

Tel.:

Fax:

Measuring point:

Application

1. What is the application or process? _____

For fuel gas application please specify the fuel: _____

2. What is the function of the system? _____

- Controlling
 Process regulation
 Process measurements
 13th BlmSchV
 17th BlmSchV

3. Components to be measured

Components	Measuring ranges

4. Number of sample spots per analysing system (in case of varying process data, pls. fill in a seperate questionnaire) _____ pcs.

5. Complete sample gas composition per sample point (sum of which = 100%) Mol-% Vol.-% Weight.-% Vol.-ppm

Component	Normal concentration	Minimum Concentration	Maximum concentration

6. Ex-category of sample gas none Zone 2 Zone 1 Zone 0 Zone 20 Zone 21 Zone 22

Process data for the sample point(s)

7. Do you need a quotation for a gas sample probe? (In case of your own supply, pls. describe probe in detail) yes no own supply

8. Process conditions of the sample gas

	normal	minimum	maximum
Sample point temperature (°C)			
Sample point pressure (bar abs.)			
Ambient temperature at installation point (°C)			
Water vapour (g/m ³) or dew point (°C)			
Acid dew point (°C)			
Dust loading and other contaminants (g/m ³) (e.g. coal dust, fly ash, particles of metal)			
Grain size and distribution of the solids (% , μ)			

9. Are the eventually existing dusts electroconductive? yes no

10. Ex-category of the ambience at the sample point: none Zone 2 Zone 1 Zone 0 Zone 20 Zone 21 Zone 22

11. Sample gas polymerised / crystallised (specify): yes no _____

12. Sample gas with corrosive components (specify): yes no _____

13. Aggressive atmosphere at the sample point (specify): yes no _____

14. Sample gas affects: SS316Ti Glass FPM Epoxy resin _____

15. The atmosphere affects: SS316Ti Glass FPM Epoxy resin _____

16. Which material is preferred for parts...

...that comes in contact with the sample gas SS316Ti Glass, FPM, Epoxy resin _____

...that comes in contact with the atmosphere SS316Ti Glass, FPM, Epoxy resin _____

17. Particular conditions at the sample spot (e.g. concussions, vibrations, climate): _____

18. Gas sample probe, length of probe tube (mm) from flange: _____

19. Mounting flange DN: _____ PN: _____ ANSI: _____ Lbs.: _____ _____

20. Mounting position of the probe: horizontal position vertical position sketch

21. Available sample quantity _____ NI/h

Specifications for the sample line(s)

22. Do you need a quotation for a sample line? yes no provided by client _____ pieces

23. Quantity/Length (m)/ dimension (e.g. 4/6, 6/8): _____

24. Preferred material for the sample line ...

...that comes in contact with the sample gas SS316Ti PTFE _____

...that comes in contact with the atmosphere nylon braiding PA-corrugated hose PVC

25. Heating of the sample line electrically heated steam heated min. temperature of heating (°C) _____

26. Ex-category of the ambience where the gas sample line is installed: no Zone 2 Zone 1 Zone 0

Zone 20 Zone 21 Zone 22

27. Special lines or particularities (specify): _____

Specifications for the analyse system

28. Construction of the analyse system: Mounting plate, material: _____, Gfk cabinet with frame 19" swing frame 19"
- stainless steel cabinet with frame 19" swing frame 19" Socle 100mm 200mm,
 cabinet with special construction (description/sketch)
- System with several cabinets cabinet with window glass synthetic material execution on wheels
- portable execution (max. weight _____kg), door stop any right side left side, special version or equipment (specify)

29. Max. dimensions (mm): H _____ x B _____ x T _____

30. Colour: RAL 7032 pebble grey RAL 7035 special colour: _____

31. Installation area: out door, temp. from _____°C to _____°C direct insolation
 protected against wind indoor, temp. from _____°C to _____°C

32. Preferred materials for components that...

...come in contact with the sample gas SS316Ti, glass, FPM, Epoxy resin, _____

...come in contact with the atmosphere lacquered steel plate SS316Ti, Gfk, _____

33. Line inlets (position): cable gland any top bottom left side right side back side
sample line any top bottom left side right side back side

34. Line inlets (dimension): cable gland cables diameter (mm) _____
bulkhead stuffing box for tube/pipe size (mm) _____

35. Ex-zone of the installation area of the analyse system? none Zone 2 Zone 1 Zone 0 Zone 20 Zone 21 Zone 22

36. Distance between analyser system and non-hazardous area? _____ m / Is it possible to install components in the non-hazardous area? (e.g. safety cut out, electronic controller) specify, sketch if possible? _____

37. Electrical auxiliary power: 230V/50Hz 115V/60Hz 24V/DC _____V/_____Hz internal safety transformer

38. Type if network: TN-S (Standard L1, L2, L3, N, PE) TN-C TN-C-S TT IT

39. Other auxiliary power: instrument's air oil-/water free _____bar steam _____bar cooling water _____°C

40. output signal: 0-20mA 4-20mA _____mV potential free Ex i

41. Further treatment of the output signal at installation place as: indication registration controller connection computer connection
 PLS audio/visual indication of limiting value HI / LO Alarm

42. T90-time required: not important _____minutes

43. Hight above NN: _____m

44. Material of the internal gas lines: PVC-tube PTFE-tube _____-tube SS316Ti tube
 _____-pipe PVDF-fittings SS316Ti fittings other _____

45. Dimensions of internal gas lines: 4/6 6/8 8/10 10/12 _____inch other _____

46. Sample gas outlet: to atmosphere back to process, pressure _____bar abs.

47. Heating (type): _____

48. Ventilation/climatic equipment (type): _____

49. Lighting (Art): _____

50. Terminal box (type): _____

51. Special guide lines, (e.g. factory standards, product requirements etc., pls. specify in detail and provide complete documents)

52. Production drawings are to be presented before production is started: yes no

53. Documentation quantity and -language: _____pieces german english other_____

54. Acceptance at manufacturer's works desired initial starting desired mounting on the job

55. Specialities (e.g. measuring point change over switch, autocal etc.) _____

Sketches and informations concerning special details

Residence, Date:_____

Signature purchaser:_____

Signature M&C official in charge:_____