

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:**
- **Applicant:** • **Department:**
- **Tel.:** • **Fax:**
- **Project:**

Application

1. What is the application or process?
- For fuel gas application please specify the fuel:
2. What is the function of the system?
- Alarming Process controlling Process measurements Others:

Components to be measured

3. Components to be measured

Components	Required measuring range

4. Sample gas composition Mol.-% Vol.-% Weight-% Vol.-ppm

Component	Normal concentration	Minimum concentration	Maximum concentration

Process data

5. Process conditions	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)			

- 6. Sample gas polymerised / crystallised (specify):
- 7. Sample gas with corrosive components (specify):
- 8. Sample gas affects: SS 316Ti Glass FPM Epoxy resin
- 9. Recommended material (specify):
- 10. Sample gas vent to atmosphere Back to process, pressure (bar abs.):
- 11. Particular climate conditions (specify):
- 12. Elevation (m):
- 13. Aggressive atmosphere at installation point (specify):
- 14. Vibration at installation point (specify):

Sampling Specification(s)

- 15. Sample probe, sample tube length (from flange):
 - Mounting flange DN: PN: ASA: Lbs.:
 - horizontal mounting position vertical mounting position
- 16. Sample line provided with the system electrically heated steam heated temperature min. (°C):
- 17. Distance between sample point and analyser system (m):
 - Sample line diameter i/o: 4/6 mm 6/8 mm mm
- 18. Available sample flow rate (NI/h):
- 19. Required response time of the system T₉₀ (sec):
- 20. Mains power supply: 230V 50Hz 115V 60Hz V Hz
 - Dry and oil free instrument air (bar) Steam (bar) Cooling water (°C)
- 21. Required output signal: 0-20mA 4-20mA mV galvanic insulated Ex i
- 22. Processing of the output signal from the system as
 - Indication Recording Controlling Calculating
 - Alarm signal acoustic / optical High alarm Low alarm
- 23. Sample gas is explosive at process conditions
- 24. Sample gas is explosive in contact with air
- 25. Installation in hazardous area
- 26. Explosion proofed analyser system, classification:
 - Purge system sufficient
- 27. Components can be installed in a non hazardous area (indicators, recorders, switch and controlling units). **Specify:**
- 28. Distance between analyser system and non hazardous area (m):
- 29. Assembly of analyser system: Single components Mounting plate Polyester cabinet Steel cabinet
 - Special construction cabinet Installation with several cabinets Cabinet base with 100 / 200 mm frame
 - Cabinet with window Portable system Others:
- 30. Maximum dimensions (mm) (W), (D), (H)

31. Colour RAL 7032 grey Special colour:
32. Installation area: Outdoor Indoor ground floor floor
 Accessibility for installation by staircase or elevator Max. weight or dimensions (kg/mm):.....
33. Gas connections in cabinet preferred: top bottom left right back side
34. Cable glands in cabinet preferred: top bottom left right back side
Position of cabinet door hinge preferred: left right
35. Sample gas tube fittings, tube sizes: 6 mm 8 mm 10 mm 12 mm inches
 External tube connectors M&C-Standard Type:
Connector and tube material:
 stainless steel 316Ti PVDF PTFE FPM copper free
 Internal tube connectors M&C-Standard Type:
Connector and tube material:
 stainless steel 316Ti PVDF PTFE FPM PVC copper free
36. Heater (Type):
37. Ventilation (Type):
38. Air conditioning (Type):
39. Lighting (Type):
40. Junction boxes (Type):
41. Mains power supply L1, N, PE L1, L2 (double pool fuse.)
 Protection transformer internal external
42. Special instructions for electrical connections:
43. Special factory specifications:
44. Type specifications for auxiliary tools:
45. Technical documentation (construction-, piping- and wiring plans) must be given approval before building of the system starts
46. Documentation quantity: numbers of prints, numbers of manuals
Language: German English
47. Final inspection required Commissioning required
48. Multi point sample stream system, number of sample points:
In case of deviations concerning process specifications, please provide a new questionnaire for each different sample stream.
For additional remarks and drawings please add another questionnaire.
49. Multi sample point controlling: Automatic selection by solenoid valves Manual selection by hand valves
50. Measuring signal memory required

Sketches and informations concerning special details



- **Residence, Date:**
- **Signature purchaser:**
- **Signature official in charge:**