



CONTROL PANEL SHOP SPECIFICATIONS FORMS

1. Email *

2. First Name *

3. Last Name *

4. Company Name *

5. Phone Number *

6. Zipcode *

7. Does the project have funding? *

Mark only one oval.

Yes

No *Skip to question 11*

Budget Section

8. Is there a budget price to be met? *

Mark only one oval.

Yes

No

9. What is the estimated project start date? *

Example: January 7, 2019

10. What is the estimated project end date? *

Example: January 7, 2019

Responsibilities

11. What do you feel is required of the integrator?

Check all that apply.

- Total project responsibility including installation
- Total project controls responsibility excluding (drawings), panel fabrication
- Design, programming, documentation
- Design, documentation, panel fabrication
- Panel Fabrication

12. Please provide a brief description of the project: *

13. Are controls drawing available? *

Mark only one oval.

- Yes *Skip to question 93*
- No *Skip to question 14*

Power Requirements

14. Will the system require both 3 phase and single phase power?

Mark only one oval.

- Yes *Skip to question 15*
- No *Skip to question 16*

Voltage

15. What is the primary 3 phase voltage?

Mark only one oval.

- 480 volts, 3 phase, 3 wire, with ground
- 277 volts, 3 phase, 4 wire, with ground
- 230 volts, 3 phase, 3 wire, with ground
- 208 volts, 3 phase, 4 wire, with ground.
- Other: _____

Secondary and/or Single Phase Voltage

16. What is secondary and/or single phase voltage is required?

Mark only one oval.

- 230 volts AC, single phase
- 120 volts AC, single phase
- 24 volts DC
- Other: _____

17. Control power feed from separate source?

Mark only one oval.

- 120 VAC
- 230 VAC
- 24 vdc

18. Will separate source power be provided from UPS?

Mark only one oval.

- Yes
- No

19. If required which type of a primary disconnect is preferred?

Mark only one oval.

- Flange mount
- Through the door

20. Which type of main circuit protection is preferred

Mark only one oval.

- Circuit breaker
- Fuses *Skip to question 22*
- None *Skip to question 22*

Minimum Interrupting Capacity

21. What is the minimum interrupting capacity required for the protective device?

Mark only one oval.

- 10K
- 16K
- 20K
- 30K
- 65K
- 100K

Main Disconnect Requirements

22. Does the Main disconnect require Service Entrance Label?

Mark only one oval.

- Yes
- No

23. What is the required enclosure rating? *

Mark only one oval.

- NEMA 1
- NEMA 12
- NEMA 4
- NEMA 4X
- Option 5

24. What are the enclosure mounting requirements? *

Mark only one oval.

- Free Standing
- Foot Mount
- Wall Mount

25. Will the power be top feed or bottom feed?

Mark only one oval.

- Top
- Bottom

26. Will the field wiring be top feed or bottom feed?

Mark only one oval.

- Top
- Bottom

27. What is the hottest ambient temperature the panel will see? *

28. Is a panel heater required? *

Mark only one oval.

- Yes
- No

29. Will the control system be installed in an area that requires an explosion proof rating? *

Mark only one oval.

- Yes
- No

30. Is control required? *

Mark only one oval.

- Yes Skip to question 31
 No Skip to question 45

Control System Preferences

31. What type of control system is preferred? *

Mark only one oval.

- PLC
 DCS
 Motion Controller
 Relays
 Other: _____

32. What size system is required for Discrete IO?

Mark only one oval.

- 32 in/ 32 out
 64 in/ 64 out
 128 in/ 128 out
 256 in/ 256 out
 Other: _____

33. What are the system requirements for analog inputs and outputs?

Mark only one oval.

- 8 in/ 8 out
 16 in/ 16 out
 32 in/ 32 out
 Other: _____

34. Are there any special I/O modules required?

35. Will there be distributed or remote I/O locations?

Mark only one oval.

- Yes *Skip to question 36*
 No *Skip to question 37*

Distributed or remote I/O locations quantity

36. If so - how many? *

Control system programming requirements

37. Does the project require the control system supplier to provide control system programming? *

Mark only one oval.

- Yes
 No

38. Is there a preferred control system manufacturer? *

Mark only one oval.

- Yes
 No *Skip to question 42*

Preferred control system manufacturer

39. What is the preferred control system manufacturer?

40. Does your company have a current version of the control system manufacturers programming software?

Mark only one oval.

- Yes
 No

41. Does your company maintain a software/service agreement with the control system manufacturer?

Mark only one oval.

Yes

No

Interface Requirements

42. Which type of operator interface or graphical interface is required?

Mark only one oval.

Push Buttons Skip to question 45

Small Touch Screen Skip to question 44

Large Touch Screen Skip to question 44

Computer Based Skip to question 43

Computer Based

43. If the operator interface is computer based please specify preference:

Operator interface programming

44. Does the project require the control system supplier to provide operator interface programming?

Mark only one oval.

Yes

No

Motion

45. Will the motors be powered through the main control panel?

Mark only one oval.

Yes Skip to question 46

No Skip to question 50

Motors powered through the main control panel

46. If motors be powered through the main control panel, please enter the size of motors and the quantity of each: *

47. How many are powered by across the line starters? State Size and quantity of each. *

48. How many are powered by VFDs? State size and quantity of each. *

49. Do you have a VFD manufacturer preference? If so who? *

System motors in the MCC

50. Are the system motors located in a Motor Controls Center (MCC)?

Mark only one oval.

Yes *Skip to question 51*

No *Skip to question 54*

MCC Specifics

51. Is the MCC an Intelligent MCC ?

Mark only one oval.

Yes

No

52. What communications network is implemented in the MCC?

53. What is the approximate number of motors in a MCC to be controlled by the control system?

Solenoid Devices

54. Are there any solenoid devices? * *

Mark only one oval.

Yes

No *Skip to question 58*

55. How many devices are controlled by air operated solenoids?

56. What is the coil voltage of the solenoids?

Mark only one oval.

24 VDC

120 VAC

57. How many devices are controlled by hydraulic solenoids?

Motion Control Requirements

58. Are there any other types of motion control required? (ex. Servo, Robotics, etc)

Sensing and Inputs

59. Where will the pilot type devices (pushbuttons, selector switches, etc), HMI be mounted? *

Mark only one oval.

Main Control Panel

Remote Operator Panel

Other: _____

60. If MCP or both, how many devices will be mounted on the Main Control Panel? Please specify type and quantity (ie Start/Stop for each motor, One for each subsystem, etc):

61. If Remote Operators Panel or both, how many devices will be mounted in ROP? Please specify type and quantity:

62. Will the integrator be responsible for providing field sensing devices?

Mark only one oval.

Yes

No *Skip to question 73*

63. How many will be limit switch type devices?

64. How many will be Photo electric type devices?

65. How many will be inductive type devices?

66. How many will be temperature sensors?

67. How many will be pressure sensing devices?

68. How many will be flow sensing devices?

69. How many discrete pilot/sensing device will be used?

70. Please list any special sensing device such as encoder, flow meters, absolute encoders, laser distance measuring devices:

71. Any other type input devices or system required for the project?

72. Would you require the integrator to field mount the sensing devices? *

Mark only one oval.

Yes

No

73. Is there a system requirement for batch or product tracking?

Mark only one oval.

Yes

No *Skip to question 85*

74. Is there a requirement for SCADA software solution that would or does collect batch or product information?

Mark only one oval.

Yes

No *Skip to question 85*

75. Is there a SCADA package that is implemented at present with in the operations?

Mark only one oval.

Yes

No *Skip to question 77*

Operational SCADA Package

76. Which SCADA package is operational at present?

Preferred SCADA Package

77. Which SCADA package do you prefer?

78. How many tags do you feel are required for the application?

79. Will there be production data collected via Barcode or other symbology?

Mark only one oval.

Yes

No *Skip to question 85*

80. Will the operators be required to scan the bar code?

Mark only one oval.

Yes

No

81. At how many points on the production line is bar code information collected?

82. Are stationary barcode scanners used in production?

Mark only one oval.

Yes

No

83. Are the codes collect while the product is stationary?

Mark only one oval.

Yes

No

84. Are sample barcodes available for testing?

Mark only one oval.

Yes

No

Network Requirements

85. Will the control system be part of a plant wide network?

Mark only one oval.

Yes

No

86. What will be the preferred communications protocol?

Mark only one oval.

- Ethernet IP
- Ethernet Modbus TCP/IP
- Profibus
- Profibus I/P
- Other: _____

87. What cable type is available?

Mark only one oval.

- Twisted Pair
- Fiber

88. What is the preferred provider of industrial network devices? *

89. Do you prefer that the SCADA, HMI, Plant-wide communications be part of a separate network from the drives and other control networks?

Mark only one oval.

- Yes
- No

90. Is the plant-wide network in place or is the design and installation part of the integrators responsibility?

Mark only one oval.

- In place
- Needs to be integrated
- Integrated by others

91. Would the customer like to explore an industrial wireless network?

Mark only one oval.

- Yes
- No

92. Please write a brief description of your preferred network configuration.

Spec Panel Submissions

93. Are the drawing typical for the application? *

Mark only one oval.

Yes

No

94. If drawings are typical for the application, will Centro be required to supply updated drawings for approval? *

Mark only one oval.

Yes

No

95. Is there a list of modifications? *

Mark only one oval.

Yes

No

96. Is there a list of materials? *

Mark only one oval.

Yes

No

97. Can Centro provide alternates to the BOM? * *

Mark only one oval.

Yes

No

98. Is the quote for multiples? Are the multiples needed at once? *

Mark only one oval.

- Yes multiples needed, All at once
- Yes multiples needed, Not all at once
- No multiples needed

Multiples timeline

99. If they are not needed all at once, please specify the timeline: *



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