VC-22D ValvApp[™] Worksheet

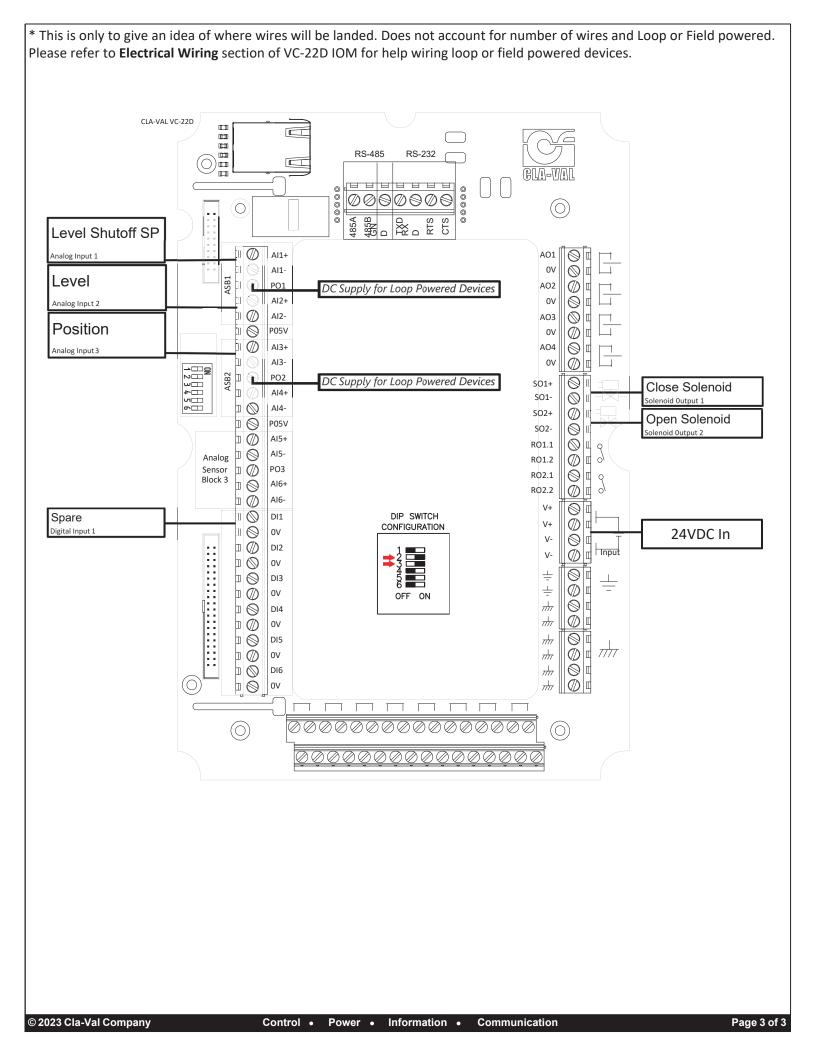


This worksheet is intended for the configuration of ValvApps™ used in the VC-22D Valve Controller. From the information provided below, Cla-Val will determine whether a standard ValvApp™ should be used or if a custom ValvApp™ is required. Additionally, this worksheet acts as a check list during commissioning to verify all parameters have been correctly configured in the VC-22D Valve Controller. Once this worksheet is completed, please return to your Cla-Val representative for approval. If a custom ValvApp is required and approved, a custom wiring diagram and ValvApp™will be created and emailed to you. Please verify all *Required fields have been filled out prior to submittal.

Information		Reset	Form	Configuration:	VC-22D
*Project Name N/A		*Tod	lay's Date		
*Cla-Val Representive N/A	Project Comple	Project Completion Date			
Control Valve Model Number 1 2 1	Customer	Customer Approval			
Control valve Model Number (if known) 131			Signature		
Valve Regulation (If more than 2 PID's are required	d, specify in logic on pag	ge 2)			
PID 1 - Valve Regulation *Solenoid Co	PID 2 - Valve R	egulation	PID Selection	Mode	
*Control Type Level - Modulating *Signal I	Control Type		Signal Loss		
Deadband (+/-)	Deadband (+/-)	Deadband (+/-) Ramping			
DP Metering (133 Valve)					
DP Metering Pressure Measurement	P1+P2			Outpu	t
Size Body Style	Seat	Units		Output Scaling	
, ,		00		- Curput County	
Totalizer					
Totalizer Reset	Units	Ouput		Output Scaling	
Analog Inputs (4-20mA) 6 Available					
*Analog Input #1 (Typically reserved for control setp	oint signal)	Scaling	Signal	Powered by Controlle	r
Name Level Shutoff SP	Units ft	4mA = 0	20mA =	20	Decimal 0.00
*Analog Input #2 (Typically reserved for control feed	back signal)	Scaling	Signal	Powered by Controlle	r
Name Level	Units ft	4mA = 0	20mA =	20	Decimal 0.00
Analog Input #3		Scaling	Signal	Powered by Controller	
Name Position	Units %	4mA = 0	20mA =	100	Decimal 0.0
Analog Input #4		Scaling	Signal	Powered by Controller	
Name	Units	4mA =	20mA =		Decimal
Analog Input #5		Scaling	☐ Signal	Powered by Controller	
Name	Units	4mA =	20mA =		Decimal
				Powered by Controller	
Analog Input #6	Units	Scaling 4mA =	20mA =		Decimal
ivalle	Office	41114 -	ZUIIIA -		Decimal
Digital Inputs 6 Available					
✓ Digital Input 1 Name Spare	Digital Input 2	ime		Digital Input 3 Name	
Purpose	Purpose			Purpose	
Digital Input 4 Name	Digital Input 5	Name		Digital Input 6 Na	me
Purpose	Purpose			Purpose	

Anal	og Outputs (4-20mA) Note: Analog Ou	tputs are sourced wi	th controller powe	r.		
	Analog Output #1			Scaling		
	Name	Units		4mA =	20mA =	Decimal
	Analog Output #2			Scaling		
	Name	Units		4mA =	20mA =	Decimal
$ \Box$	Analog Output #3			Scaling		
	Name	Units		4mA =	20mA =	Decimal
	Analog Output #4			Scaling		
	Name	Units		4mA =	20mA =	Decimal
Soler	noid Outputs					
V	*Solenoid Output #1 (SO1)		Solenoid Outpu	ut #2 (SO2)	Note: SO1 and SO2 are	a powered solid state output typically reserved
	Name Close Solenoid		Name Open Se		for solenoids used on a	131 or 133 series valve. The output can be con- t) or Discrete ON/OFF. If configured as discrete, a
	Default: Closing Solenoid			pening Solenoid		open circuit, and 1 a closed circuit.
Relay	/ Output					
	Relay Output #1 (RO1)		Relay Output #	2 (RO2)		e configured as dry contact mechanical relays
	Name		Name			s. These outputs are configured as Discrete presents an open circuit, and 1 a closed circuit.
Actio	ns/Alarms					
	Action #1					
	Name	Describe				
	Additional Comments					
	Action #2					
	Name	Describe				
	Additional Comments					
	A a 4/a in #2					
ш	Action #3	Describe				
	Name Additional Comments	Describe				
	Action #4					
	Name	Describe				
	Additional Comments					
Com	munication					
	GSM/GPRS Modbus	TCP/IP	Modbus	RTU (RS485/RS232)		s specification page for register mapping and efer to manual for more details.
*Con	trol Logic (Please specify all control I	logic using sketche	es, diagrams, etc	c. Attach additional she	ets if necessary)	
into th	alvApp provides standard level altitude ce tank. The position is directly proportion to in the field to prevent the position from	nal to the difference	between current l	level and high setpoint. A	a maximum position setpoint	t has been included which can be
adjuste	ed in the field to prevent the position from	n getting extremely	small as the level	approaches the high setp	point.	
	s been added into this program, even thou ling signal cables on this IO point and co			nything. This serves as a s	spare IO point so additional	functionality can be added in the field

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	Cla-Val VC-22D Modbus Addresses					
Project Name:		N/A				
	Date:					
Modbus	Input	Description	Data Type	Access	I/O Mappin	g Comments
40007 Bit 0	Level Shutoff SP	Analog Input Modbus Override		Write		Overrides 4-20mA Al1 Input to use Modbus Address 43000/43001
40007 Bit 1	Level	Analog Input Modbus Override	Bit	Write		Overrides 4-20mA AI2 Input to use Modbus Address 43002/43003
40007 Bit 2	Position	Analog Input Modbus Override	Bit	Write	N/A	Overrides 4-20mA AI3 Input to use Modbus Address 43004/43005
40007 Bit 3		Analog Input Modbus Override	Bit	Write	N/A	Overrides 4-20mA AI4 Input to use Modbus Address 43006/43007
40007 Bit 4	-	Analog Input Modbus Override	Bit	Write	N/A	Overrides 4-20mA AI5 Input to use Modbus Address 43008/43009
40007 Bit 5		Analog Input Modbus Override	Bit	Write	N/A	Overrides 4-20mA Al6 Input to use Modbus Address 43010/43011
						·
40008 Bit 0	Spare	Digital Input Modbus Override	Bit	Write	N/A	Overrides Hardwire DI1 Input to use Modbus Address 41000
40008 Bit 1		Digital Input Modbus Override	Bit	Write	N/A	Overrides Hardwire DI2 Input to use Modbus Address 41001
40008 Bit 2		Digital Input Modbus Override	Bit	Write	N/A	Overrides Hardwire DI3 Input to use Modbus Address 41002
40008 Bit 3	-	Digital Input Modbus Override	Bit	Write	N/A	Overrides Hardwire DI4 Input to use Modbus Address 41003
40008 Bit 4	-	Digital Input Modbus Override	Bit	Write		Overrides Hardwire DI5 Input to use Modbus Address 41004
40008 Bit 5		Digital Input Modbus Override	Bit	Write	N/A	Overrides Hardwire DI6 Input to use Modbus Address 41005
41000	Spare	Digital Input	Word	Read/Write	DI1	Register Holds/Reads DI1 Value
41001		Digital Input	Word	Read/Write	DI2	Register Holds/Reads DI2 Value
41002		Digital Input	Word	Read/Write	DI3	Register Holds/Reads DI3 Value
41003		Digital Input	Word	Read/Write	DI4	Register Holds/Reads DI4 Value
41004		Digital Input	Word	Read/Write	DI5	Register Holds/Reads DI5 Value
41005		Digital Input	Word	Read/Write	DI6	Register Holds/Reads DI6 Value
41006	Close Solenoid	Digital Output	Word	Read		Monitory Purposes (Optional)
41007	Open Solenoid	Digital Output	Word	Read	S02	Monitory Purposes (Optional)
41008		Digital Output	Word	Read	R01	Monitory Purposes (Optional)
41009		Digital Output	Word	Read	R02	Monitory Purposes (Optional)
		·				
43000/43001	Level Shutoff SP	Analog Input	Int 32	Read/Write	Al1	Register Holds/Reads Al1 Value x100 for Two Implied Decimals
43002/43003	Level	Analog Input	Int 32	Read/Write	AI2	Register Holds/Reads AI2 Value x100 for Two Implied Decimals
43004/43005	Position	Analog Input	Int 32	Read/Write		Register Holds/Reads AI3 Value x100 for Two Implied Decimals
43006/43007		Analog Input	Int 32	Read/Write	AI4	Register Holds/Reads AI4 Value x100 for Two Implied Decimals
43008/43009		Analog Input	Int 32	Read/Write	AI5	Register Holds/Reads AI5 Value x100 for Two Implied Decimals
43010/43011		Analog Input	Int 32	Read/Write	AI6	Register Holds/Reads AI6 Value x100 for Two Implied Decimals
43036/43037		Analog Output	Int 32	Read	AO1	Monitory Purposes (Optional) - Register Holds AO1 Value x100 for Two Implied Decimals
43038/43039		Analog Output	Int 32	Read		Monitory Purposes (Optional) - Register Holds AO2 Value x100 for Two Implied Decimals
43040/43041		Analog Output	Int 32	Read	AO3	Monitory Purposes (Optional) - Register Holds AO3 Value x100 for Two Implied Decimals
43042/43043		Analog Output	Int 32	Read	AO4	Monitory Purposes (Optional) - Register Holds AO4 Value x100 for Two Implied Decimals

^{***}Additional ModBus information can be found in the manual.