Arcus ACE-SDE Controller Installation Notes.



- 1. The controller model name is ACE-SDE.
- 2. Unplug the USB cable from the ACE-SDE controller during software installation.
- 3. Install "Arcus Drivers and Tools Setup 1.10.exe", first.
- 4. Install "ace installation 1.53.exe", second.
- 5. Plug the USB cable into the ACE-SDE controller and turn on power, wait for drivers to load.
- 6. Run the "Soft Exe ACE SDE 224" program from the black desktop icon.



7.

Click on the USB Icon.

Highlight "sde01, Index=0.

Click OK.

ACE-SDE C	GUI	
	Chnology ACE	SDE Software /ersion 224
	USB]
	Serial Settings	;
COM Port:	COM1 💌	Search
Baud Rate: Device ID:	9600 • 01 •	Search All
	© © RS-485	
	Exit	

Select De	vice 🔀
Device:	
sde01 , Ind	ex=0
ОК	Cancel

8. The main menu screen will appear.

Status	24	100 2016	Control	19			12		Program Co	ontrol			1	
Position	188387	R .	Position	1000	k		40		Status Bun	nina Index	16	X-Threa	d	2
Encoder	0	RO	High Speed	100000	DA DA	TUM ABS	HOME	HOME+	in the second se				1	Abou
Delta	0		Low Speed	0	- 7	in mis	ates	i cates						
Speed	0		Accel	0		0G- J0G+	HL	HL+	Run	Stop	Pause	Cont	1	V
Status	IDLE	1000	Decel	0			1		Text Prog	am	Tota	d liner	>1	
tepNLoop	NA	С	Enable	E	- P				EO=1		1003	a carea.	-	Variab
Mode	ABS		unal auto	Ireal			20.	201+	WHILE 1	- 1				8
S-curve	0		ABS Set En	THA					JOYHSX	(=75				1ġ
		10	INC Set Po	SUM	TY S	TOP ISTOP	Z.	Z+	FISETE	DT2 = 0				
+L () n-The-F	H () Fly-Speed	-0					J	I	JOYHSX ELSE JOYHSX	(=29000 (=9000				Comp
+L () n-The-F iSPD Mo ID State DI1/State DI2/Abor DI3/Sel 1	H O Thy-Speed - ode 0 • us t/Clr O 1 O	Set SSP D01/In P D02/Alar	0 Mode Spec	ed 1000 nc Output- able (DO2) ise Width nc Cla		1000	Set Accel	+ Speed	JOYHSX ELSE JOYHSX ENDIF ENDVHILE END	(=29000 (=9000 :				Comp
+L n-The-F SSPD Mc ID State DI1/State DI2/Abar DI2/Abar DI3/Sel 1 DI4/Sel 2	H O Fly-Speed - ode 0 • us ucli 0 t/Cli 0 2 0	Set SSP D01/In P D02/Alan	D Mode Spec	ed 1000 ac Output- able (DO2) ac Cig ac Pos		1000 Latch Latch Inp Latched Latch En	Set Accel	+ Speed	JOYHSX ELSE JOYHSX ENDIF ENDUF ENDUF END	(=29000 (=9000 ;				Comp - Downk Uploz
+L () n-The-F SSPD Mo ID State DI1/State DI2/Abor DI3/Sel 1 DI4/Sel 2 DI5/Sel 3 DI5/Sel 3	H Fly-Speed ode 0 • US UCIr 0 1 0 2 0 3 0	Set SSP D01/In P D02/Alar	D Mode Spec	ed [1000 ac Output- able (DO2) ac Width ac Cig ac Pos Status		1000 Latch Enable Latch Inp Latch En Status	Set Accel	+ Speed	JOYHSX ELSE JOYHSX ENDIF ENDUHILE END	(=29000 (=9000 :				
+L n-The-F SPD Mc D State D1/State D12/Abor D13/Sel 1 D14/Sel 2 D15/Sel 3 D16/Sel 4	H Ty-Speed ode 0 • us t/Clr 2 3 4	Set SSP D01/In P D02/Alar	D Mode Spec	ed 1000 ic Output – able (DO2) se Width ic Clg ic Pos Status	Accel	1000 Latch Enable Latch Inp Latched Latch En Status	Set Accel ut O Pos 0 0 0FF	+ Speed	JOYHSX ELSE JOYHSX ENDIF ENDUF ENDUF ENDU	(=29000 (=9000 ?				Downin Downin Uploz View
+L () n-The-F SSPD Mc ID Statu)11/Statu)12/Abor)13/Sel 1)14/Sel 2)15/Sel 3)16/Sel 4 nalog In 12/49	H () Fly-Speed ode 0 • us t/Clr 2 3 4 0 2 0 4 0 2 0 4 0 Pro	Set SSP D01/In P D02/Alan	D Mode Sper	ed 1000 to Output- able (DO2) to Vidth to Clig to Pos Status	Accel	1000 Latch Enable Latched Latched Latched Status	Set Accel ut o o o o o o o o o o o o o o o o o o	+ Speed	JOYHSX ELSE JOYHSX ENDIF ENDVHILE END	(=29000 (=9000 :		4	•	Comp

When the Thumb Wheel is moved the values in the AI1 Box, under Analog Inputs, will change from 0 to 5000 indicating the analog voltages of 0-5 VDC.

This indicates the Thumb Wheel is working.

Under the DIO Status Window, DI1 or DI2 will change color when the Speed Switch is changed to either Low or High Speed.

This indicates these inputs are working.

The white box, under Text Program will normally be blank, but populates once the "Main" program is loaded.

The picture above shows the program as loaded, but before this step is performed the "Setup" program should be loaded.

Click on the Setup Icon.

9. The setup menu screen will appear.



Navigate to the "MVR200 Joystick SetupAAA.par" program, click on the file.

Check to see that the following Boxes populate with the values shown above: Joystick Control, Misc Settings, Driver Settings, Polarity/Setup.

Click on Write, within the Driver Settings to download the motor settings. This must be done anytime these settings are changes.

Click on the Down Icon Box to load values or any changes, to the controller. Click on the Store Icon Box, to permanently save changes. Always Write, Down, Store all changes.

10.	Return	to	the	Main	setup	screen.
-----	--------	----	-----	------	-------	---------

Status			Control						-Program Co	ntrol			1	
Position	188387	R,	Position	1000	. Mar		40		Status Runni	ing Index	16	X-Thre	ad	2
Encoder	0	RO	High Speed	100000	DATUN	ABS	HOME	HOME+		- 1	-	-	1	About
Deita	0		Low Speed	0	¢ 111					Shee				
Status	0	-	Accel	0	JOG-	JOG+	HL	HL+		Stop	Fause	Cont		V
tepNLoop	NA.	c1	Decel	0	10		40		Text Progra	m	Tota	al Lines:	>	Variable
Mode	ABS		Enable	2	Ŀ	L+	ZH-	ZH+	EO=1 WHILE 1 -	1			*	6,6
S-curve	0		ABS Set En	TRA			-(=		IF DI1	0				1Å:
+L ()	нO	10	INC Set Po	s SCV	TX STOP	ISTOP	Z.	Z+	ELSEIF I	DI2 = 0				Comole
n-The-F	ly-Speed	-0							JOYHSX: ELSE JOYHSX:	=29000 =9000				
In-The-F SSPD Mo ID State DI1/Start	ly-Speed ode 0 •	Set SSPI	D Mode Spee	ed [1000 c Output able (DO2)	Accel [100	D Latch Enable	Set Accel	+ Speed	JOYHSX- ELSE JOYHSX- ENDIF ENDVHILE END	=29000 =9000				
In-The-F SSPD Mo DI1/State DI2/Abor DI2/Abor DI3/Sel 1	Ily-Speed ode 0 • us	Set SSPI D01/In P D02/Alan	D Mode Spee	ed [1000 c Output able (DO2) se Width [0	Accel 100	Latch Enable Latch Inpu	Set Accel	+ Speed	JOYHSX- ELSE JOYHSX- ENDIF ENDUHILE END	=29000 =9000				Download
Dn-The-F SSPD Mc DID State DI2/Abor DI2/Abor DI3/Sel 1 DI3/Sel 3 DI5/Sel 3	Ily-Speed ode 0 • us v/Clr 0 2 0 3 0	Set SSPI D01/In P D02/Alan	D Mode Spec	ed 1000 c Output able (DO2) se Width 0 c Clg = c Pos 0 Ctabus 0		Latch Enable Latch Inpu Latch Enc Latch Enc	Set Accel	+ Speed	JOYHSX- ELSE JOYHSX- ENDIF ENDUHILE ENDUHILE	=29000 =9000				Downloa Upload
In-The-F SSPD Mc DI1/Statt DI2/Abor DI3/Sel 1 DI4/Sel 2 DI5/Sel 3 DI6/Sel 4	Ily-Speed ode 0 • UCk 0 2 0 3 0 4 0	Set SSP D01/In P D02/Alan	D Mode Spee D Mode Spee D Mode Spee D Mode Spee Sp	ed 1000 ic Output able (DO2) se Width 0 ic Cig 2 ic Pos 0 Status 0	Accel 100	Latch Enable Latch Inpu Latched Pr Latch Enc Status	Set Accel	+ Speed	JOYHSX- ELSE JOYHSX- ENDIF ENDUHILE END	=29000 =9000				Compare
DID State DID State DI1/State DI2/Abor DI3/Sel 1 DI3/Sel 2 DI5/Sel 2 DI5/Sel 3 DI6/Sel 4 unalog Ir unalog Ir	Ily-Speed ode 0 • us t/Clr 0 0 0 0 0 0 0 0 0 0 0 0 0	Set SSPI D01/In P D02/Alan	D Mode Spec	ed 1000 c Output able (DO2) se Width 0 ic Cig = ic Pos 0 Status 0	Accel 100	Latch Enable Latch Inpu Latched Ph Latch Enc Status	Set Accel	+ Speed	JOYHSX- ELSE JOYHSX- ENDIF ENDUHILE END	=29000 =9000		,	•	Comple

Click on the Open Icon, navigate to the "MVR200 Main Program AAA.prg", click on the file.

The program text will appear in the white window.

Click on the Compile icon.

Click on the Download icon.

Always Compile and Download any new changes.

Click on the Green Run Icon, the status box above it will change to "running" showing the program is now running.

The Thumb Wheel should now drive the Z Stage up and down.

Click on the Close Box and close the Main Setup screen.

Cycle the power to the Arcus Controller.

The Thumb Wheel and Speed control switches should now function.

11.

References:

Arcus web site: <u>http://www.arcus-technology.com/</u>

Arcus downloads: http://www.arcus-technology.com/support/downloads.html

From Arcus main menu:

Support

Downloads Software Installation DMX ACE eace installation 1.53.exe PMX Arcus Software Installation Arcus Drivers and Tools Setup 1.10.exe WVM