MAX20 USER's Guide



[Contents]

I. INSTALL

1. Driver Install	1-3
2. MAX20 Install	4-5

II. USER's Manual

1. How to create and delete ID	6-7
2. How to measure	7-10
3. Check the data	10
4. How to set the test condition	11
5. How to back up the data	11-12

III. Port Setting

1. How to set the port automatically	13
2. How to set the port manually	14-15
IV. Port Connection Problem	16-18
V. Reference	18-19

I. INSTALL

1. Driver Install



Silicon Laboratories CP210x VC	P Drivers for Windows 2000/XP 🔀	
Choose Destination Location	A Second Se	
Select folder where setup will install files.		
Setup will install Silicon Laboratories CP210 Server/Vista in the following folder.	x VCP Drivers for Windows 2000/XP/2003	
To install to this folder, click Next. To install another folder.	to a different folder, click Browse and select	
Destination Folder		
c:\SiLabs\MCU	Biowse	
stallShield		
	< <u>Back</u> Next> Cancel	→ Click "Next".
ilicon Laboratories CP210x VC	P Drivers for Windows 2000/XP 🔀	
Ready to Install the Program	1-1	
The wizard is ready to begin installation.	a second	
Click Install to begin the installation.		
If you want to review or change any of you	r installation settings, click Back. Click Cancel to exit	
(ne wizalo.		
stallShield		
	< Back Install Cancel	← Click "Install"
ilicon Laboratories CP210x VC	P Drivers for Windows 2000/XP 🔀	
Setup Status	A-A	
The InstallShield Wizard is installing Silicon	Laboratories CP210x VCP Drivers for Windows	
2000/XP/2003 Server/Vista		
Installing		
c:\\CP210x\Windows_2K_XP_S2K3_Vis	sta\x86\silabenm.sys	
		Installing
		inoconnig.
stallShield	(
	Cancel	

Silicon Laboratories CP210x VCP Drivers for Windows 2000/XP/20	
InstallShield Wizard Complete The InstallShield Wizard has successfully copied the Silicon Laboratories CP210x VCP Drivers for Windows 2000/XP/2003 Server/Vista to your hard drive. The driver installer listed below should be executed in order to install drivers or update an wisting driver. InstallShield Wizard has successfully copied the Silicon Loor Artista to your hard drive. The driver installer listed below should be executed in order to install drivers or update an wisting driver. InstallShield Wizard has successfully copied the Silicon Loor Artista to your hard drive. The driver installer listed below should be executed in order to install drivers or update an wisting driver. InstallShield Wizard has successfully copied the Silicon Loor Artista to your hard drive. The driver installer listed below should be executed in order to install drivers or update an wisting driver. InstallShield Wizard has successfully copied the Silicon Loor Artista to your hard drive. The driver installer listed below State of the Silicon Laboratories CP210x VCP Drivers for Windows 2000/XP/2003 Server/Vista setup.	Check to launch the CP210x VCP Driver Installation.
<back cancel<="" finish="" th=""><th>→ Click "Finish".</th></back>	→ Click "Finish".
Silicon Laboratories CP210x VCP Drivers for Windows 2000/XP/20 InstallShield Wizard Complete Silicon Laboratories CP210x USB to UART Bridge Driver Installer Silicon Laboratories CP210x USB to UART Bridge Installation Location: Driver Version 5,2,1 C:\Program Files\Silabs\MCU\CP210x\ Change Install Location Install Cancel Cancel Silicon Laboratories CP210x VCP Drivers for Windows 2000/XP/20	Click "Install".
InstallShield Wizard Complete 员 Silicon Laboratories CP210x USB to UART Bridge Driver Installer	
These drivers are already current and up to date, to remove these go to Add/Remove Programs in the Control Panel Change Install Location Install Cancel Cancel Cancel	Click "OK". to search for driver automatically. If you see the message for restart, Please do so.

2. MAX20 Install



i Setup - MAXZU				
Ready to Install				
Setup is now ready to begi	n installing MAX20 on your computer.			
Click Install to continue wit change any settings.	h the installation, or click Back if you want to review	or		
Destination location: C:₩Program Files₩M	4×20			
	< <u>B</u> ack Install	Cancel	Click "Install".	
Setun - MAX20				
Please wait while Setup in:	stalls MAX20 on your computer.			
Extracting files	0₩#Becources₩₩₩4%201oco.boo			
	onnesources ninovizologo. Jinp			
			Installing!	
		Cancel		
Setup - MAX20				
	Completing the MAY20 Cel			
	Completing the MAX20 Set Wizard	up		
	Completing the MAX20 Set Wizard	up		
	Completing the MAX20 Set Wizard Setup has finished installing MAX20 on your com application may be launched by selecting the ins	cup puter. The railed icons.		
	Completing the MAX20 Set Wizard Setup has finished installing MAX20 on your com application may be launched by selecting the ins Click Finish to exit Setup.	CUP puter. The railed icons.		
	Completing the MAX20 Set Wizard Setup has finished installing MAX20 on your com application may be launched by selecting the ins Click Finish to exit Setup.	CUP puter. The railed icons.		
	Completing the MAX20 Set Wizard Setup has finished installing MAX20 on your com application may be launched by selecting the ins Click Finish to exit Setup.	CUP puter. The alled icons.		
	Completing the MAX20 Set Wizard Setup has finished installing MAX20 on your com application may be launched by selecting the ins Click Finish to exit Setup.	CUP puter. The ralled icons.		
	Completing the MAX20 Set Wizard Setup has finished installing MAX20 on your com application may be launched by selecting the ins Click Finish to exit Setup.	Cup puter. The called icons.		
	Completing the MAX20 Set Wizard Setup has finished installing MAX20 on your com application may be launched by selecting the ins Click Finish to exit Setup.	CUP puter. The alled icons.		
	Completing the MAX20 Set Wizard Setup has finished installing MAX20 on your com application may be launched by selecting the ins Click Finish to exit Setup.	CUP puter. The alled icons.		
	Completing the MAX20 Set Wizard Setup has finished installing MAX20 on your com application may be launched by selecting the ins Click Finish to exit Setup.	CUP puter. The called icons.	Click "Finish" to e	exit the se

5

II. USER's Manual

1. How to create and delete ID

1) Create



2) Delete



2. How to measure



To start the test and have your PC to collect the measurement Click "Measure".





É Mensura	
Lindex Date J5 [100 Biowing Name PLANEO Charlyting Storting Result Storting Result Atcobol invel For 100 For 100	To repeat a test, Click on "Start".
Lor (P.100 Ready on No image Total 1 76 Dete Time Heruit Rode Low Righ Photo 09/01/21 09:22:32 0.000 mg/1 Normai	To end test, Click on "Exit".
Monsouri Todex Todex Deval Book Secting Secting Secting Secting Secting Secting Secting Secting Secting Secting Secting Secting Secting Secting Secting Secting Secting Secting Secti	Flow error
Total 1 0 Date Time Nerult Hode Low High Photo	The breath sample was not strong enough for this measurement. Your AL9000 is equiped with a pressure sensing device to ensure deep lungs measurement. You must blow hard enough to overcome this pressure switch.

. How to use t e ata

🛿 C:WPRO	GRAM F	ILES₩MAX20₩DA1	ra₩MAX20_2	2009. DAT					
file		prin	t	el ex	⊳ it				
Peri	.od	₩ A11 2009-01-	-21 🔽 ~ 🛛	2009-01-21	•				
ID		₩ A11						1	1
Alcohol	level	₩ A11				_	1)	Carrier Carrier
Ì	Vormal	C All C		- [1)
	Fast	C All C C)	•	enter		1		1
ID	Name		Date	Time	Result	Mode	Low	High	Photo
IDO ID1	NAME NAME	0	09/01/21 09/01/21	09:22:32 09:18:52	0.00 mg/l 0.15 mg/l	Normal Normal			

strength.

- 1) You can check the result visually.
- 2) You can send the result data (execpt for the image) to Excel and print it from your PC.
- 3) You can alway review historical data.

. How to set t e test o to

Setting	
Setting Mode Normal Low 0.10 Hi 0.25 Serial port Port COM3 Speed 4800 Port search	 1) Set the low and high levels a. Set the levels within the following ranges. g/l 0.00~1.50 mg/l 0.00~0.75 %BAC0.00~0.15 ow e e H e e always choose Low level smaller than the High level and consider two decimal places only. 3) Select the port and signaling speed.
 □ Use Web CAM □ Use ID Card System □ Use sound □ Use Data Auto Back Setting save fail. 	 4) Check the fuction Camera RFID card Sound Data Auto Back up 5) If the low and high level are set incorectly, you will see this message.
MAX20 🔀 Setting save O,K,	6) If the settings are correct, you will see this message

. How to a u t e ata











Select the location to save your data.

Please do not select "MAX20_2009" folder since it is not a writable folder. If you do you will see this error message.

Please do not select "MAX20_2009".



*When you backup manually, the previous data will be deleted and new data will be placed in the selected folder.

*When you backup automatically, the previous data won't be deleted.

III. Port setting

. How to set t e ort automat a

Setting 🛛 🗙	Setting	
Setting Node Normal Low 0.10 Hi 0.25 Serial port Port COMI Port COMI Port search Use Web CAM Use ID Card Systen Vise sound Use Data Auto Backup	Setting Node Normal Low 0.10 Hi 0.25 Serial port Port COL Port Serach 0.K Speed 40 Core search Use Web CAM Use ID Card Systen Vise sound Use Data Auto Backup	You will see this message box when you click on "port search", if the port to be set automatically.
Setting Node Normal Low 0.10(H1 0.25(Serial port Port COM3 Speed 4800 Port search Use Web CAM Use ID Card Systen Use Sound Use Data Auto Backup	MAX20 X Setting save 0,K, Click First First MAX20 X Setial port open 0,K ther MAX20 X Setial port open 0,K ther Setial port open 1,K ther	c "save". c, you will see this message and o you will also see this one indicating you have seleceted the port correctly. e port setting failed, you will see message. Please set the port nually again. (refer to the following oter.

Click "exit".

2. How to set t e ort ma ua

Setting	Setting	Setting
Setting Hode Normal Low 0.10 H1 0.25 Serial port Port COM1 Speed 4800 Port search Use Web CAM Use ID Card Systen V Use sound Use Data Auto Backup	Setting Node Normal Low 0.10 Hi 0.25 Serial port Port CM Port Serach fail Speed 400 Even Veb CAM Use ID Card Systen Vise sound Use Data Auto Backup	Setting Node Normal Save Low 0.10 Hi 0.25 Serial port Port COM1 Save Port COM1 Save Port search Use Web CAM Use Web CAM Use ID Card Systen Vise Sound Use Data Auto Backup

You may see this message when you click the "port search", if the port did not set automatically. If so, Exit MAX20 program and check the following screens.





2. Double click "System".





- 4. Click "Port" and check "Serial Port".
- 5. Check serial port number in "MAX20" program. It must be the same as the serial port appears in "Device manager". (ex. COM3)

IV. Port connection Problem

. ort sett ro em

시스템 등록 정보 🔹 🔀		Setting	
일반 컴퓨터 이를 하드웨어 고급 시스템 복원 자동 업데이트 원격 장치 관리자 중치 관리자는 사용자 컴퓨터에 설치된 하드웨어 장치를 연구합니다. 장치 관리자를 사용하여 각 장치의 속성을 변경할 수 있습니다. 장치 관리자(D) Device manager 목감이버 성명은 파일(E) 동작(A) 보기(Y) 노동말(E) 연결하는 방법을 수 에 법 음 양 때 정 중 중 20	글꼴 날짜 및 시간 에일 무성	Setting Mode Normal Low 0.10 Hi 0.25 Serial port	
도라이버 사 ● ● CHOI 하드웨어 프로필 □ 스크 드라이브 값 한 그스크 드라이브 값 한 그스크 드라이브 값 고등적이 어렵던 가우스 및 기타 포인팅 장치 모니터 값 것 시설 장치 값 가보드 가보드 것 시설 장치 값 가보드 가보드 것 보드 것 보드 가보드 것 보드 가보드 것 보드 것 보드 값 것 보드	ridge (COM3)	Port COM1 Speed 4800 Port search Use Web CAM Use ID Card Systen Use sound Use Data Auto Backup	

In MAX20 program alway set to a port that exists in "Device Manager"

If the port setting still has a problem, check the followings;



Silicon Labs CP210x USB to UART Bridge(COM3) 등록 [?] 🚺	
일반 포트 설정 드라이버 자세히 Port setting	Check the "Port setting".
Signaling speed(Bit) 비트/초(B) 4800 Data bit 데이터 비트(D) 8 Parity Bit 패리티(P) 없음 none (이다. 이다. 100 (100 (100 (100 (100 (100 (100 (100	The number must be the same as the table on the left. a see t ata t art t to t ow o tro
Flow Control 흐름 제대(F) 없음 none 고급(A) 기본값 복원(B) Advanced 확인 취소	If the numbers match click on "Advanced".
COM3 고급 설정 COM3 Advanced Setting	? 🔀
 ✔ FIFO 버퍼 사용(16550 호환 UART가 필요함)(U) 연결 상태에 문제가 있으면 설정값을 낮추고 송수신 속도를 빠르게 하려면 설정값을 높이십시오, 수신 버퍼(B): 낮음 (1) 중신 버퍼(T): 낮음 (1) 	확인 취소 기본값(<u>D</u>) 높음(16) (16)

Verify that the "COM Port number" matches with the one on MAX20 software. They must be the same.

If it does not accept this number, change to another port (COM1 \sim COM3) Also change the same port number in "MAX 20".

2. r er sta ro em

COM Port number COM 포트 번호(P):

Please restart "Driver install" in I-1.

COM3

. ort o e t ro em



If you see this message after setting the port, simply pull out the USB cable and re insert.

ows o erat ng s stem ro em

After successful installation, if the program file directory does not contain the "MAX20" software, try to reinstall or contact customer support.

V. Reference



Enter the serial number marked on your CD Jacket.

3. See the test subject's photo

🕴 Measure			
Index ID ID2 Name NANE2	State Ready Blowing Analyzing Completion	▶ start	Photo View
- Setting Mode Normal Low 0.100 Ni 0.250 Total : 95	Result Alcohol level Ready	No im	
Inte Time Denult 09/01/21 14:34:49 0.000 my/1 09/01/21 13:57:51 0.000 mg/1	Normal Pigh Pi	hoto	

When selecting the tester's data, you will see the picture in a new popup window.

4. Auto Back up

· 파일(F) 변진(Y) 즐겨찾기(A) 도구(T) 도움말(H)	
Setting Image: Setti	ng e Normal 0.10 0.25 1 port et COH3 ed 4800 Port search E Web CAM E Ueb CAM E JD Card Systen E sound E Data Auto Backup the auto backup.

This will backup the data automatically in "AutoMonthlyBackup" folder in "MAX20" folder each month.