PMC-1202 PC Manager MANUAL

Research & Development Center

2013.03.22





Version	Date	Changes	Status	Author/Approver
1	2013/03/22	First revision	draft	Jongmin choi

- The information is subject to change without notice for technical improvement.



CONTENTS

- 1. Introduction
- 2. USB to Serial Driver Setup
- 3. How to Install OCX
- 4. Serial Port setting
- 5. Configuration
- 6. Move to Position(PTP)
- 7. Open-Loop Control
- 8. Contact Information



1. INTRODUCTION

- 1. This user manual provides information about the PC manager of PMC-1202
- 2. Reference documents
 - PMC1202 Technical description _Vxxx.pdf
 - PMC1202 UART Command reference manual _Vxxx.pdf





2. USB to SERIAL Driver Setup

1. Execute the "CDM 2.04.06.exe" that is attached

C C C C C C C C C C C C C C C C C C C		파일 폴더	2013-03-22 오후 2:43
CDM 2,04,06,exe	2,160KB	응용 프로그램	2008-04-10 오후 12:05
PMC1202 PC manager V107,exe	80KB	응용 프로그램	2013-03-21 오후 4:55

2. You can download the file in this website (http://www.ftdichip.com)

3. Once the attached file is executed, you don't need to execute it



3. How to Install OCX

- 1. Windows XP
 - Step1: Run "install.bat"

- 2. Windows 7, 8
- Step1: Copy "strips.ocx" and "install.bat" to "C:₩Windows₩system32."

ſ	install, bat	1KB MS-DOS 일괄 파일 210KB Active X 쿼트르	2013-03-11 오후 3:00 2003-03-19 오후 19:25	COPY	C:\WINDOWS\system32	
l				•		

- Step2: Run "install.bat" in administrator privileges mode which is selected using right-click of mouse.







5. Configuration

		TULA Controller Manager – 🗖
TULA Contro	ller	TD101 Configuration Motor Control Open loop
CLEAR SAVE		R + [Red = Target Position, Blue = Current Position] Display Step Move to Step
(0060) _tula50 (0061)	^	Step Work 0 step 4000 1 -
10062] -70 23 3 4 6 10083] -72 09 20 1 10084] -72 186 6 18 0 10085] -73 18, 2 17, 2 10085] -74 1, 4 16, 4 10087] -75 15, 7 14, 9 10086] _ok	×	Closed Loop Control Absolute target step: 1000 Target Home Get-Position Relative target step: 200 <-Step Rev
>rp	SEND	PTP Demo Target1 (step) Target2 (step) Interval (ms) START
>status	SEND	0 1000 200 STOP
>inform	SEND	
>version	SEND	

- [TULA Series]:Define the motor type
- [Encoder Type]:Define the encoder type

WWW.PIEZO-TECH.COM

- [Resolution]:Define the resolution of encoder
- [Reference Frequency]:Define the driving frequency
- [Voltage]:Define the voltage
- [Swap Encoder A/B]:Swap encoder A and encoder B inputs
- [Configuration]:Configuration commands input
- [Auto-Tuning]:Automatic tuning
- [STOP]:Aborts the motion immediately.
- [Get-Information]:Reports the internal setting of controller



6. Move to Position(PTP)

WWW.PIEZO-TECH.COM



- [Display]: During motion, the motion status can be continuously monitored.
- Red = Target Step.
- Blue = Current Step.
- [+]: Zoom in

-

- [-]: Zoom out
- [R]: Reset to the scale
- [Home]: Move to the home position.
- [Target]: Move to the absolute target position. The target position can be specified absolute position, using the absolute position parameter.
- [<Step Rev],[Step Fwd>]: Move to the relative target position. The target position can be specified relatively to the current desired position, using the relative position parameter.
- [STOP]: Aborts the motion immediately.
- [Get-Position]: Reports the actual controller position.(Encoder value)



7. Open-Loop Control

TULA Controller Manager
Port View About Help MODE
TULA Controller V107 Configuration Motor Control Open loop
Preceived data Image: CLEAR SAVE Image: Clear Source freq 80000 Hz Setting Image: Clear Source freq 8000 Hz Setting Image: Clear Source freq 800 Hz Setting Image: Clear Source freq 800 Hz Setting Image: Clear Source freq 800 Hz Setting <t< th=""></t<>
leady NUM

- [Frequency]: Define the driving frequency (20~100kHz)
- [Duty]: Define the duty(1~48%)
- [Volt]: Define the voltage(16~35Vdc)
- [Time]: Time Duration.
- [Pulse]: Pulse Duration.
- [Duration]: The moving on-time.
- [Interval]: The time between the start of each step.
- [Steps]: The optional number of run.
- [<Reverse]: Motor runs in reverse.
- [Forward>]: Motor runs forward.
- [<Bi>]: Move to both direction.
- [Stop]: Aborts the motion immediately

8. Contact Information

1. Contact your local distributor or Piezoelectric Technology Co., Ltd.

2. Head Office

Room 501, 503 Sinnae Technotown, 485 Sangbogn1dong, Jungrang-gu, Seoul, Korea. 131-863

Tel: +82-2-3421-0370~3

Fax: +82-2-3421-0374

Web site: www.piezo-tech.com

Email: <u>piezo-tech@piezo-tech.com</u>

