Universal Peltier Driver PLP Series Setting Software "PLP-300W14A Manager.exe" Operating Manual (Rev.2.30)

Software Version: 2.1.0.0

Model Number PLP-300W14A IMPORTANT] This software support It is not available to	Hardware Version 3.00 -	Firmware Version 2.0.0.0 - licable model list.
PLP-300W14A IMPORTANT] This software support It is not available to	3.00 -	2.0.0.0 -
IMPORTANT This software support It is not available to	orts a product listed in the appl	licable model list.
This software supported to the software support of the	orts a product listed in the application a	licable model list.
It is not available to	aldan ma duata	
	older products.	
When the hardware	version and the firmware vers	sion of the your product is
older than the listed	l version, please refer for a ser	ial number displayed by
the label on the both	tom of the product	
And then please con	ntact Kurag Electronics Peltier	Controller support .
Kurag Electronics Pel	tier Controller support	
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* The developer of or Corporation.	riginal software "PLP300_Meas.o	exe" is T. S. Laboratory

July 24, 2017 Kurag Electronics LLC



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1. General

This software is special software for Universal Peltier Driver PLP Series. It can read and write various setting parameters of the PLP series by connecting the PLP series and a PC with a USB or RS-232(*) communication cable. (*) RS-232 port is optional.

(*) Setting parameter is written to EEPROM in the PLP series. It is kept during power off.

[IMPORTANT]

This software is designed for development or production use. Special technical knowledge about temperature control system is necessary in use. The PLP series may not work normally when there is an operation mistake or a wrong setting is executed.

2. Install / Uninstall

System requirement

Microsoft Windows XP Microsoft Windows Vista (*1) Microsoft Windows 7 (*1)(*2) Microsoft Windows 8 / 8.1 (*1)(*2) Microsoft Windows 10 (*1)(*2)

(*1) When the program can not start, it may be solved with a compatible mode of Windows XP.

(*2) When the program file is placed in "Program Files" folder, the program may not start. In such case place the program file in the place except the "Program Files" folder.

Microsoft .NET Framework 4

Install

Copy the program file "PLP-300W14A Manager.exe" and the language folder "en" to HDD.

(*)In the Windows 7/8/8.1/10 environment please place the program file in the place except the "Program Files" folder.

(*)"en" folder is used for English language indication. It should be same place as the program file.

Uninstall

Delete the program file "PLP-300W14A Manager.exe" and "en" folder from HDD.

Update

Overwrite by a new program file after terminating a program.

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3. Connection

Connect the PLP Series and PC with USB communication cable.

- (*1) USB cable is not included the package.
 - Please prepare Type-A~Type-B USB cable by yourself.
- (*2) Please insert USB cable after turning on the power of PLP series.
- (*3)The device driver of USB-Serial converter IC FT232R is required. If necessary, please download the device driver from FTDI Web site. <u>http://www.ftdichip.com/FTDrivers.htm</u> URL may be changed without notice.

USB Type-B

When the optional RS-232 port is mounted, it is able to use RS-232C serial port of the PC. (*1) If both of USB and RS-232 are connected, USB is given priority.



4. Start software

Double click the program file "PLP-300W14A Manager.exe" . Then the software is started.

If no valid PLP series is detected, error message is indicated.



Click "OK", then a message of close confirmation is indicated.

Information	
Close?	
Yes	No

Click "Yes" to close the software and check condition.

(*) If you click "No", the software is started but it can not communicate with PLP series.

Confirmation items

- ✓ Does a power supply of the PLP series become ON?
- ✓ Is the communication cable connected properly?
- ✓ Is device driver for USB installed?

	many, the fond		piùyea.	
K PLP-300W14A Manager Version 2.1.0.0				- 🗆 X
Serial Port		_		
СОМ СОМ6 ~	OPEN			Log Clear
Command			_	
Board No. Preset Parameter Read Stat	Valid COM port r	umber is indicated here		
Board No. Setting				
Board No.			_	
	SE	T READ		
Board No. Activation				
Password				
	OF	()		
Receive Message				
				^
L				~

When the software starts normally, the following screen is displayed.

5. Close software

Click close button of the window top right corner. A message of close confirmation is indicated. Click "Yes" to close the software

Information	\times
? Close?	
Yes	No

When shut down the power of PLP series or disconnect the communication cable, the software may be hung up and may not operate it.

In this case, press [Ctrl]+[Alt]+[Del] keys to start Windows task manager and close "PLP-300W14A Manager.exe" forcibly.

6. Screen

K PLP-300W14A Manager Version 2.1.0.0	COM port number selection Port open/close button	□ ×
Serial Port	· ·	
COM COM6 V CLOSE		.og Clear
,		
Command		/
Board No. Preset Parameter Read Status Control Command Senso	r E Clear button of	
Temperature / Timer Setting	communication message	
Temperature (°C)	and selection tab	
	PERATURE	
Timer Numeric input field		
3.5 SET_TIME_MIN	SET_TIME_HOUR	
Operating Made		
	SET TIMER	
Pulldown menu		
Temperature Control		
SET START SET STO	Comman	d execution
	button	
Temperature / Time Range		
DATA READ		
Program Mode Temperature (°C)		
Indication window of communication	message	
Receive Message		
STE,OK		^
STM,OK STT,OK		
STA,OK		
		~

7. Port Open/Close

K PLP-300)W14A Manager Versio	on 2.1.0.0			COM port number selection Port open/close button	on	• ×
COM Command	COM6	~	CLOSE			Lo	og Clear
Board No. Board No	Preset Parameter	Read Status	Control Comm	nand Sensor	Event File Operation		
00113	0200002			SET	READ		
Board No	. Activation						
Passw	vord			ок			
		[¹	ndication win	dow of com	munication message]	
Receive Me	essage	····					
RLD, -4000	,10000,1,9999,1,720(2					^

Open COM port

Select COM port and click [OPEN] button. Then the button changes from [OPEN] to [CLOSE].

Close COM port

Click [CLOSE] button. Then the button changes from [CLOSE] to [OPEN].

8. Board No.

Write and read the board ID number.

[IMPORTANT] Never change the board Password is required to	d number except a special case. to change the board number.	
K PLP-300W14A Manager Version 2.1.0.0		- 🗆 X
COM COM6	CLOSE	Log Clear
Command Board No. Preset Parameter Read	Status Control Command Sensor Event File Operation	
Board No. 001130200002	SET READ	
Board No. Activation Password	When COM port open, the board number is indicated	automatically.
RBN,001130200002	[READ] button then the board number is displaye e board number is twelve digits.	d

Item	Button	Description
Read board number	READ	Read the board number from EEPROM of PLP Series.
Write board number	SET	Write the board number to EEPROM of PLP Series.
Password	ОК	Password to input the board number.

9. Preset

Setting of various functions of PLP Series.

Please refer to instruction manual of the PLP series for the details of each functions.						
K PLP-300W14A M	lanager Version 2.1.0.0				- 0	×
Serial Port						
COM COM6	~	CLOSE			Log Clear	
Command						
Board No. Preset	Parameter Read Status	s Control Comma	nd Sensor Event File Operation	n		
- Sensor Alarm				_		
• ON	OFF		READ_ALARM_SENSOR	WRITE_A	LARM_SENSOR	
- Power Supply Alar	m					
ON	O OFF		READ_ALARM_POWER	WRITE_A	LARM_POWER	
– Fan Alarm						
O ON	• OFF		READ_ALARM_FAN	WRITE	_ALARM_FAN	
System Alarm						
ON			READ_ALARM_SYSTEM	WRITE_A	LARM_SYSTEM	
- Sub Sensor Alarm	1					
() ON	• OFF		READ_ALARM_MON	WRITE_	ALARM_MON	
L						
Receive Message						
WAS,OK RAS,1 WAP,OK RAP,1						^
WAF,OK RAF,0 WAC,OK RAC,1 WAM,OK RAM,0	1) Check Comm 2) Click [I Comm x=1:Fa	[Fan Alarm] rad and response; W READ_ALARM and response: R n Alarm ON, x=	io button in OFF and click [V /AF,OK 1_FAN] button. AF,x =0:Fan Alarm OFF	VRITE_ALA	RM_FAN] buttor	ι.

Item	Button	Command Response
Sensor Alarm	READ_ALARM_SENSOR WRITE_ALARM_SENSOR	RAS,x (x=1:ON,x=0:OFF) WAS,OK
Power Supply Alarm	READ_ALARM_POWER WRITE_ALARM_POWER	RAP,x (x=1:ON,x=0:OFF) WAP,OK
Fan Alarm	READ_ALARM_VOLT WRITE_ALARM_VOLT	RAF,x (x=1:ON,x=0:OFF) WAF,OK
System Alarm	READ_ALARM_SYSTEM WRITE_ALARM_SYSTEM	RAC,x (x=1:ON,x=0:OFF) WAC,OK
Sub Sensor Alarm	READ_ALARM_MON WRITE_ALARM_MON	RAM,x (x=1:ON,x=0:OFF) WAM,OK

10. Parameter

Setting of various parameters of PLP Series.

[IMPORTANT] If you set wrong para Please do not change For more detail, pleas	imeter, tem parameter se refer to	perature careless technica	e control op ly. l manuals.	peration 1	nay be unstable or	malfunctioning.
K PLP-300W14A Manager Version	n 2.1.0.0					- 🗆 🗙
COM COM6	~	CLOS	E			Log Clear
Command Board No. Preset Parameter Current Limiter	Read Status	Control Co	mmand Sens	or Event	File Operation	
Upper Limit (A) 6.0			READ_CUR	RRENT	SET_CURRENT	WRITE_CURRENT
Voltage Limiter Upper Limit (V) 12.0			READ_V	OLT	SET_VOLT	WRITE_VOLT
PID Control Kp Ki 50 0.05	Kd 0		READ_PID_C	ONTROL	SET_PID_CONTROL	WRITE_PID_CONTROL
Receive Message WCU.OK						~
RCU,60 WVO,OK RVO,120 WPI,OK RPI,50,0.05,0						
						~

Item	Button	Description
Current Limiter	READ_CURRENT SET_CURRENT WRITE_CURRENT	Set maximum current of Peltier drive. In case of PLP-300W14A, allowable range is from 0A to 14A by 0.1A step. *SET_CURRENT: The setting value is not written to EEPROM. *WRITE_CURRENT: The setting value is writtento EEPROM.
Voltage Limiter	READ_VOLT SET_VOLT WRITE_VOLT	Set maximum voltage of Peltier drive. In case of PLP-300W14A, allowable range is from 0V to 24A by 0.1A step. *SET_VOLT: The setting value is not written to EEPROM. *WRITE_VOLT: The setting value is written to EEPROM.
PID Control	READ_PID_CONTROL WRITE_PID_CONTROL	PID Control parameter Kp: Proportional, Ki: Integral, Kd: Differential

11. Read Status

Read present status.

K PLP-300W14A Manager Version 2.1.0.0	– 🗆 X
- Serial Port	
COM COM6 CLOSE	Log Clear
Command	
Board No. Preset Parameter Read Status Control Command Sensor Event File Operation	
Temperature	
READ_STATUS_TEMPERATURE	
Operating Status	
READ_STATUS_MOTION	
Alarm	
READ_STATUS_ALARM	
Condition	
READ_STATUS_CONDITION	
Firmware Version	
READ_VERSION_INFO	
Receive Message	
RTP;500,726,3507 RST,RUN,COOL,CONT	^
RAL,GOOD RTM MIN 35 35	
RCO,STOP,CONT	
	¥

Item	Button	Response
Temperature	READ_STATUS_TEMPERATURE	RTP,(setting value),(present value) (ex.) 1883: 18.83deg Celsius
Operating Status	READ_STATUS_MOTION	RTP,(operation),(polarity),(timer/continuous)
Alarm	READ_STATUS_ARARM	RAL,(alarm status) GOOD/SENSOR/POWER/FAN/PELTIER
Timer	READ_STATUS_TIMER	RTM,(minute/hour),(setting time),(remain time)
Condition	READ_STATUS_CONDITION	RCO,(START/STOP),(CONT/TIMER) (*) Switch status on PLP Series.
Source Version	READ_VERSION_INFO	RVR,(version) (*) Firmware version of PLP Series

12. Control Command

K PLP-300W14A Manager Version 2.	1.0.0				- 0	×
- Serial Port						
COM6	~	CLOSE			Log Clear	
Command						
Board No. Preset Parameter Re	ead Status	Control Command	Sensor Ever	t File Operation		
- Temperature / Timer Setting						
Temperature (°C)					_	
5				SET_TEMPERATURE	_	
Timer		_	_		_	
3.5		SET_TIME_MIN		SET_TIME_HOUR		
Operating Mode					_	
Continuous ~				SET_TIMER		
Temperature Control						
SET_START		SE	ET_STOP			
Temperature / Time Bange						
remperature / Time Range						
DATA_READ						
Program Mode Temperature (°C)						
					_	
				SET_PROGRAM_TEMPERATUR	E	
						J
Receive Message						
STE,OK						~
STT,OK						
STA,OK						
						~

Item	Button	Description
Temperature	SET_TEMPERATURE	Input by 0.1deg Celsius
Timer(minute)	SET_TIME_MIN	Input by 0.1 minute
Timer(hour)	SET_TIME_HOUR	Input by 0.1hour
Operating Mode	SET_TIMER	Select Continuous Mode / Timer Mode
Temperature Control	SET_START/SET_STOP	START / STOP of temperature control operation
Temperature / Time Range	DATA_READ	Read temperature range and time range RLD,(temperature min),(temperature max),(minute min),(minute max),(hour min),(hour max) (ex.) RLD,-1000,8000,1,9999,1,7200 Temperature: -10~80deg, Time(minute):0.1~999.9min, Time(hour):0.1~720hour
Program Mode Temperature	SET_PROGRAM_TEMPER ATURE	Temperature setting command for program mode (SPT command ~ Do not write to EEPROM) Input by 0.1deg Celsius

(*) Error message is displayed when you input a value out of the set range.

13. Sensor

Select type of temperature sensor and temp	perature range.	
[IMPORTANT] If you change setting by mistake, it may not a Please do not change setting carelessly. Depending on the type of the temperature ser	acquire right temperature. nsor, it may be required har	dware change.
K PLP-300W14A Manager Version 2.1.0.0		– 🗆 X
COM COM6 CLOSE		Log Clear
Command		
Board No. Preset Parameter Read Status Control Comman Sensor	d Sensor Select type of Pt ser	nsor and temperature range.
PT Sensor Type [00]PT100 -40°C~100°C ∨ NTC Sensor Type [24]103JT -10°C~80°C ∨	Select type of NTC	theorist and temperature range.
	Select main sensor	Pt sensor / NTC thermistor
Sub Sensor	Select sub sensor U	se / Not use.
	READ_SENSOR	WRITE_SENSOR
Receive Message		
1		^
		~

Item	Button	Description
Read sensor setting	READ_SENSOR	Read a type of sensor and a temperature range. (*) No message in message window. The pull-down menu is updated.
Write sensor setting	WRITE_SENSOR	Write a type of sensor and a temperature range. (*) All related parameters are written by batch.

The type of sensors and the temperature range which can be selected in a pull-down menu are listed below.

 (*) If you want to support unlisted sensor, please contact to Kurag Electronics Peltier Controller support.

E-Mail: kurag.tslab@biz.nifty.jp

Pt sensor

Type of sensor	Temperature range	Detection current	Remarks
Pt100	-40°C ~ 100°C	1mA	IEC Pub.751-1995 conformity
Pt500	-40°C~100°C	0.2mA	
Pt1000	-40°C~100°C	0.1mA	

NTC thermistor

Supplier	Number	R25[ohm]	B[K]	Temperature range	Detection current	Remarks
SEMITEC	103AT	10k	3435	-10°C ~ 80°C	15uA	
	103ET	10k	3250	-10°C ~ 80°C	15uA	
				0°C ~ 50°C	23uA	
				-30°C~60°C	5uA	
	103JT	10k	3435	-10°C ~ 80°C	15uA	
				0°C ~ 50°C	23uA	
				-30°C~60°C	5uA	
	103KT	10k	3435	-10°C ~ 80°C	15uA	
MURATA	NCP15XH103	10k	3380	-10°C~80°C	15uA	
	NCP15WF104	100k	4250	-10°C~80°C	luA	

(*) The detail characteristics of each sensor please refer to the supplier's data sheet.

14. Event

Temperature range setting of event (temperature monitoring) function.

K PLP-300W14A Mar	ager Version 2.1.0.0	\	8)	- 🗆 🗙
Serial Port				
COM COM6	~	CLOSE		Log Clear
Command				
Board No. Preset	Parameter Read Sta	tus Control Command S	ensor Event File Operation	
Event				
Lower Limit (°C)	Upper Limit (°C) Sub l	ower Limit Sub Upper Limit		
4	6 20	30	READ_EVENT_COND	WRITE_EVENT_COND
	Only	for Sub Sensor ON	READ EVENT STATUS	
			READ_EVENT_ON/100	
Receive Message				
WEC,OK	200			~
REG,NORM,UPPER	000			
				~

Item	Button	Description
Read event temperature	READ_EVENT_COND	Read event temperature settings (ex.) REC,900,1100,2000,3000 Main sensor: Lower limit =9°C, Upper limit=11°C Sub sensor : Lower limit=20°C, Upper limit=30°C
Write event temperature	WRITE_EVENT_COND	Write event temperature settings
Read event status	READ_EVENT_STATUS	Confirm event status (Current temp.) < (Lower limit): LOWER (Lower limit) < or = (Current temp.) < or = (Upper limit): NORM (Current temp.)>(Upper limit): UPPER

(*1) During event is occurred, the ALARM LED is lights on.

(*2) During event is occurred, the temperature control operation does not stop.

(*3) Setting of sub sensor is effective when the sub sensor is active.

(*4) When the Event Function is not used, set all value to "0".

15. File Operation

All EEPROM data including the setting values and the parameters for the PLP series can be read out, and it can be stored in a file. Moreover, all the setting values and the parameters which are read out from the file can be written to EEPROM of PLP series. By saving it in a file before changing the setting values and the parameters, it will be able to roll back them to the original ones later.

K PLP-300W14A M	lanager Version 2	.1.0.0					- 🗆	>
Serial Port								
COM COM6	-	~	CLOSE				Log Clear	
Command					Ella On antiine			
Board No. Preset	Parameter R	lead Status Con	trol Command	Sensor Ever	The Operation			
Oave EEI Nom Oe	Save the EEPf	ROM settings on t	he device to the fi	ile "PLP300.fr	m".	SAVE EE	PROM PARAMETER	
-Write Settings to I	FEPROM							
White Octaings to I	Write all settin	ios on this applica	ation software to t	he FFPROM		WRITE	ALL PARAMETER	
Save Settings to F	ile							
	Save all settin	gs on this applica	ition software to a	a file "*.xml".		SAVEA	LL PARAMETER	
Load Settings from	m File							
Open	Load settings	from the specifie	d settings file to th	nis applicatior	n software.		_	
						SET ALL/E	EPROM PARAMETER	
Sensor Paramete	r							
	Load all sens	or parameters fro	m the specified p	arameter file '	"*.spr".	OPEN	SENSOR PARAMS	
						WOITE		
	write all sens	or parameters to t	ne EEPROM.			WRITE	SENSOR PARAMS	
	Save all sense	or parameters to a	a file "*.spr".			SAVE S	SENSOR PARAMS	
Receive Message								
Item			Button			Desc	ription	
EEPROM S	etting to	SAVE EEP	ROM PARA	METER	Read EEPRC)M data of	PLP Series at o	nc
e EEI Roim 5	etting to	SITUE LEI			And save ten	nporary PC	C file.	10
ite setting to E	EPROM	WRITE AL	L PARAME	TER	Write all valu software to F	ues and par EEPROM o	rameters which s of PLP Series at o	et on
ve Setting to Fi	le	SAVE ALL	PARAMET	ER	Save all valu software to P	es and par C file (xm	ameters which se l format) at once	et
ad Setting from	n File	SET ALL/E	EEPROM		Load fall val	ues and pa	rameters which	sa

Load Setting from File	SET ALL/EEPROM PARAMETER	Load fall values and parameters which saved file to this software.
Sensor Parameter	OPEN SENSOR PARAMS WRITE SENSOR PARAMS SAVE SENSOR PARAMS	Open sensor parameter file. (.spr) Write the sensor parameters to EEPROM. Save the sensor parameters to PC file.

Operating procedure

1) Save EEPROM setting to PC file

Click [SAVE EEPROM PARAMETER] button.Read EEPROM data of PLP Series at once. And save temporary PC file (named "PLP300.frm").

(*) Cannot change file name. When "PLP300.frm" already exists, it is overwritten.

(*) At this timing, the set values and parameters are not reflected to screens of this software. It is necessary reading operation from PC file to let you reflect it to this software.

2) Load setting from PC file

Load temporary file(PLP300.frm) or setting application file(file extension: .xml). And reflect to screens of this software.

And reflect to screens of this soft

Click [OPEN] button.

Select file and open.

Click [SET ALL/EEPROM PARAMETER] button.

K Open					×
← → ~ ↑ 🚺 « M	yProgram > KE > PLP-300W14A Manager	> v2100 > 🗸 🗸	ර Search v2100		Q
Organize 🔻 New fold	er			•	?
This PC	Name	Date modified	Туре	Size	
E. Desktop	📙 en	2017/07/24 10:33	File folder		
Documents	PLP300_001130200002.xml	2017/07/24 17:10	XML Document	1 k	В
🖊 Downloads		Salaat fila			
b Music		Select file			
Pictures					
Videos					-
* TI31064000B (C:)		Select file	уре		
🔜 DATA1 (D:)		Temporary	file: peltier.frm		
DATA2 (E:)		Setting app	plication file: *.x	ml	
INSTALL (F:)					
🛖 AP-U64 (J:) 🗸					
File n	ame: PLP300_001130200002.xml		 Application Se Application Se Firmware Setti All Files(*.*) 	ettings Files(*.xı ettings Files(*.xı ings Files(*.frm)	nl. ~ nl)

3) Save application setting to PC file

Click [SAVE ALL PARAMETER] button

Save all values and parameters which were set by this software to PC file (xml format) at once.

- (*) Default file name is "PLP300 (Board Number).xml". It is able to change the file name.
- (*) Saved values and parameters in this operation are values and parameters which set this software. It is not EEPROM data of PLP Series.

K Save settings to			×
$\leftarrow \rightarrow \checkmark \uparrow$	« MyProgram » KE » PLP-300W14A	Manager → v2100 🗸 🗸 S	earch v2100 $ ho$
Organize 🔻 Ne	w folder		≣≡ ▼ (?)
💻 This PC	^ Name	Date modified Type	Size
E. Desktop	en 🔜	2017/07/24 10:33 File f	older
Documents			
👆 Downloads			
👌 Music			
Pictures			
📑 Videos			
🟪 ТІЗ1064000В ((C:)		
👝 DATA1 (D:)		It is able to change the file name.	
👝 DATA2 (E:)		Do not change file extension.	
INTERALL VES	~		
File name:	PLP300_001130200002.xml		~
Save as type:	Application Settings Files(*.xml)		~
∧ Hide Folders	Application Settings Files(*.xml) Firmware Settings Files(*.frm) All Files(*.*)		

4) Write to EEPROM

Click [WRITE ALL PARAMETER] button.

Write all values and parameters which were set by this software to EEPROM of PLP Series at once.

Procedure to restore the changed setting to the original setting

- 1) Save EEPROM data by [SAVE EEPROM PARAMETER] button before changing.
- 2) Load "peltier.frm" by [SET ALL/EEPROM PARAMETER] button to reflect to screens of this software.
- 3) Change value or parameter. Save values and parameters by [SAVE ALL PARAMETER] button as necessary.
- 4) If you want to restore the setting, reload "peltier.frm" by [SET ALL/EEPROM PARAMETER] button.
- 5) Write original setting to EEPROM by [SET ALL/EEPROM PARAMETER] button.

5) Sensor Parameter

It is used for unlisted sensor parameters. For more detail, please contact to T.S. LABORATORY Peltier Controller support.

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Rev.	Date	Description	Editor
1.00	10/04/2014	Initial release	Y.O
2.00	11/05/2014	Hardware Ver3.00, Firmware Ver2.0.0.0	Y.O
2.01	04/02/2015	Software Ver2.0.0.2	Y.O
2.02	04/06/2015	Correction of writing errors.	Y.O
2.10	04/17/2017	Change the support window from T.S.Laboratory to KURAG ELECTRONICS	Y.O
2.30	07/24/2017	Software Ver2.1.0.0 Change name of program from "PLP300_MEAS" to "PLP-300W14A Manager".	Y.O

Revision History

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