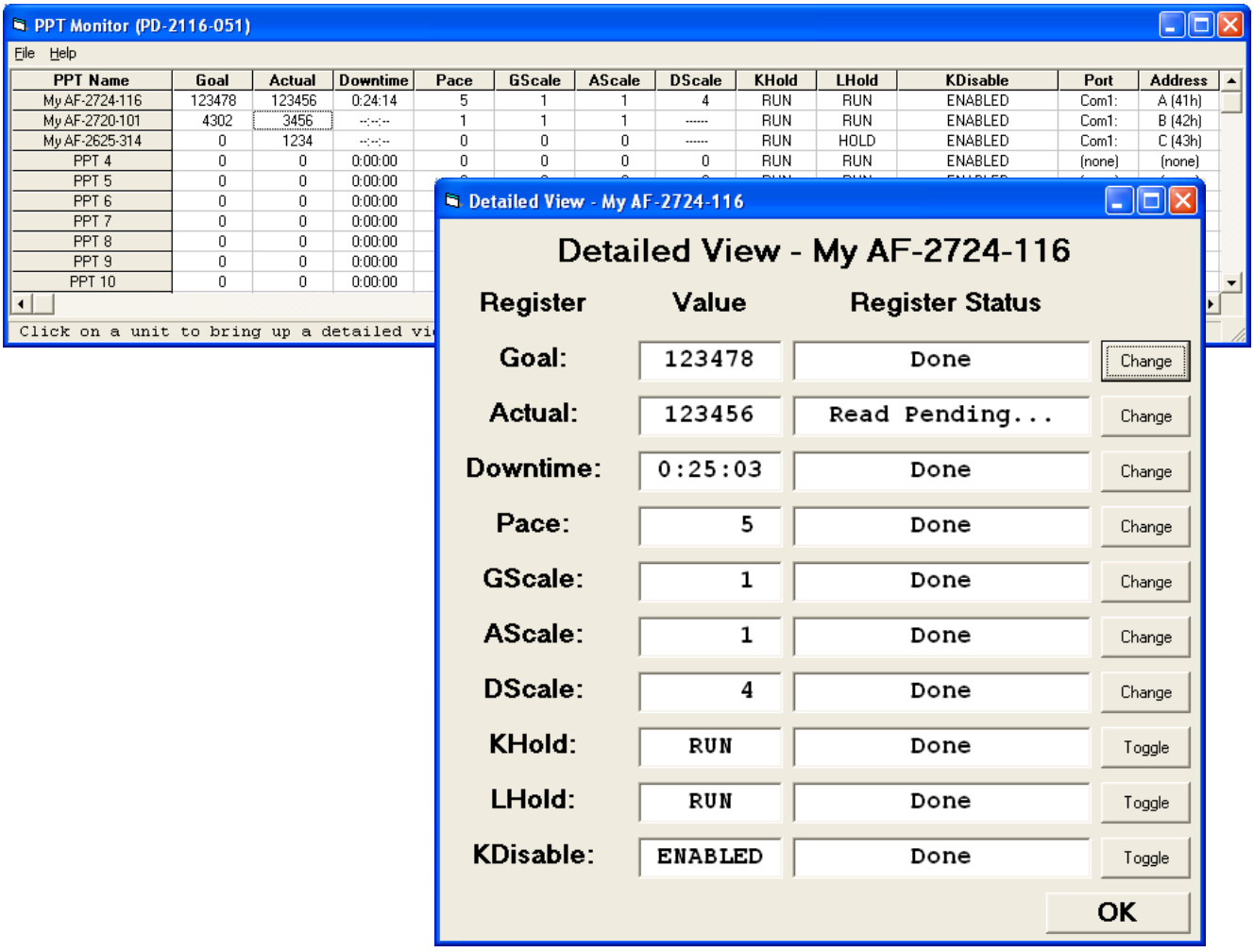
American LED-gible®

Reducing Downtime Across the Nation!

The PPT Monitor
PC Software
Owners Manual
PC Program PD-2116-051 V3.0



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1.0 Getting Started

Thank you for your purchase of an AMERICAN LED-gible® product. We take pride in the equipment we build, and we appreciate your support. We will do everything we can to keep you happy with your purchase for many years to come. Please review this manual carefully, and if you have any questions, call, e-mail, or fax us and we will be glad to help you. American LED-gible support can be reached at:

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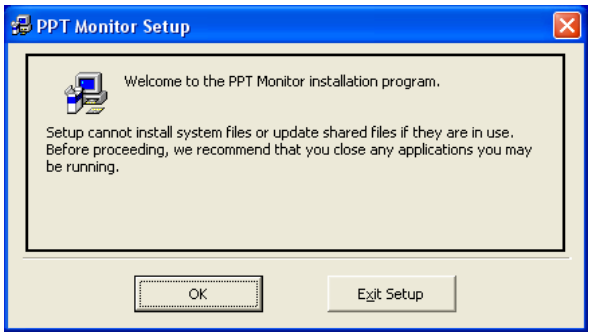
1.1 Installing the PD-2116-051 PPT Monitor PC Software

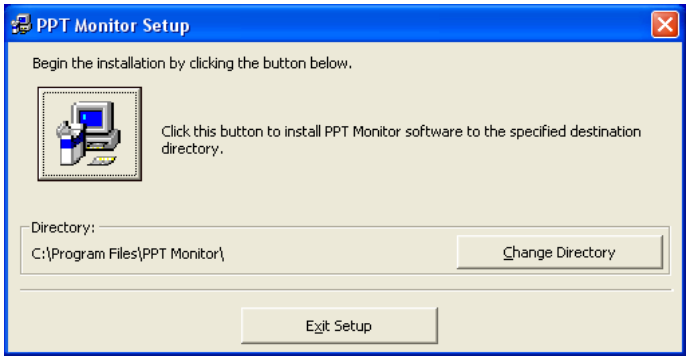
The PPT Monitor PC software is written in Visual Basic 6.0, and designed to run on any Windows 95, Windows 98, Windows 2000, or Windows XP computer. Minimum system requirements are a 800MHz processor, 256MB RAM, 4GB Hard drive.

However, even though the minimum system requirements are quite meager, the PPT Monitor program is designed to gather PPT data as fast as possible, thus it typically will consume near 100% CPU time even on a very fast PC. In most installations it's best to dedicate an older / slower PC to running the PPT Monitor software.

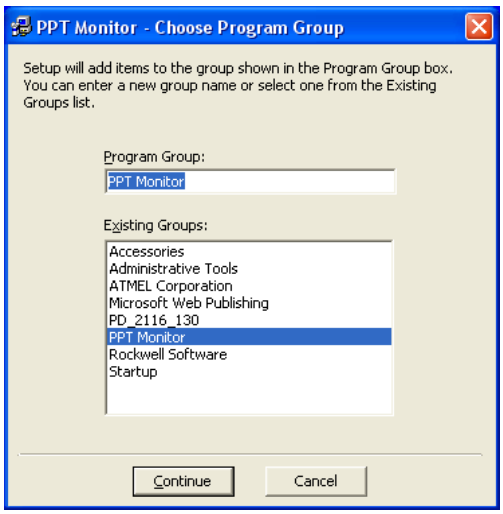
To install the PPT monitor software, place the PD-2116-051 V3.0 CD in your CD drive, and run the SETUP program on the root of the CD. Then click on OK to begin the installation.



The setup program will ask you where to install the PPT Monitor program on your PC. In most cases the default directory is the best choice. Click on the icon of the PC to continue.

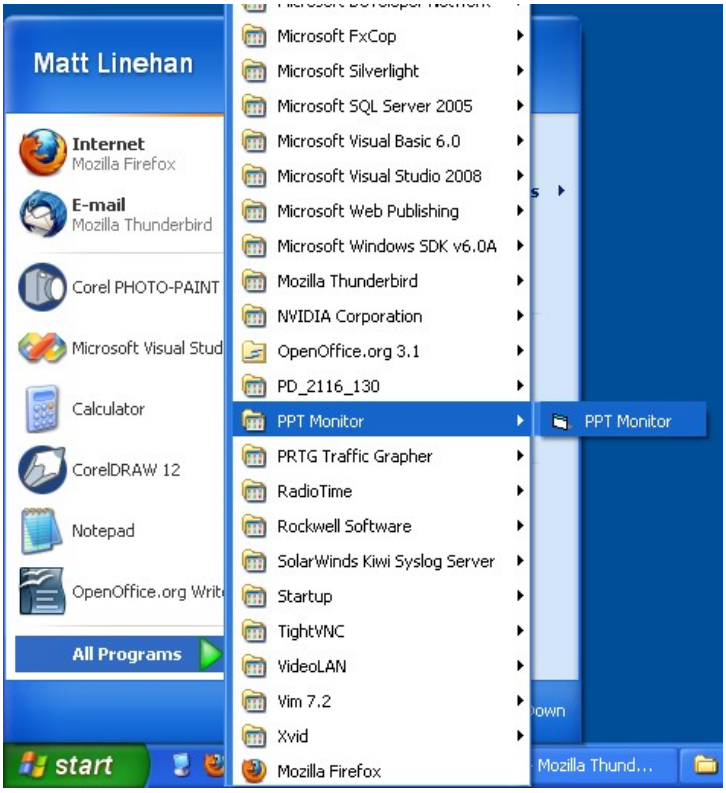


Next the setup program will ask you to choose a program group. Again the default is generally the best choice. Click on the continue button to continue.



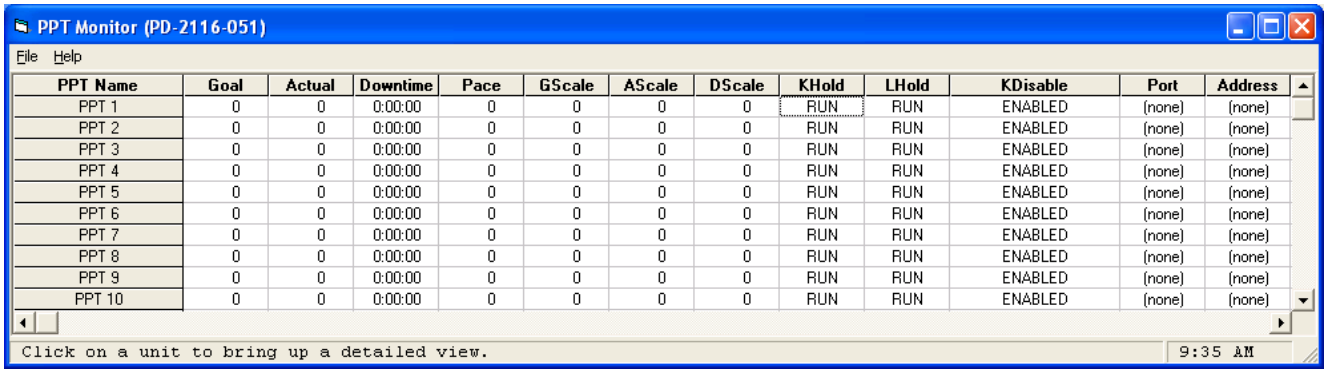
The setup program will now install the PPT Monitor program on your PC.

To start the PPT Monitor program, click on **[Start] → [All Programs] → [PPT Monitor] → [PPT Monitor]** as shown in the picture to the right.



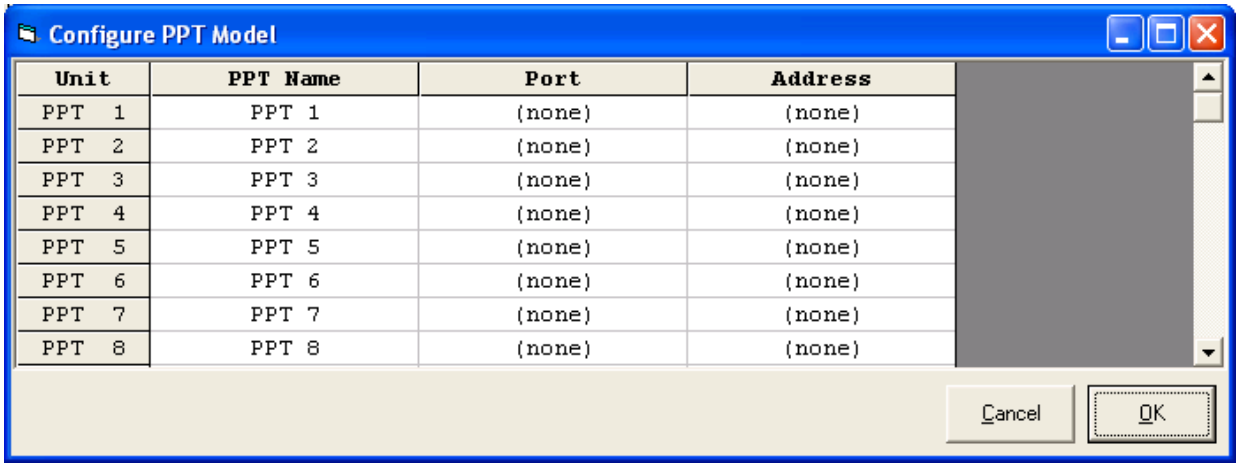
1.2 Configuring the PPT Monitor Software

The first time the PPT Monitor program runs, it will look something like this.



PPT Name	Goal	Actual	Downtime	Pace	GScale	AScale	DScale	KHold	LHold	KDisable	Port	Address
PPT 1	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 2	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 3	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 4	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 5	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 6	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 7	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 8	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 9	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 10	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)

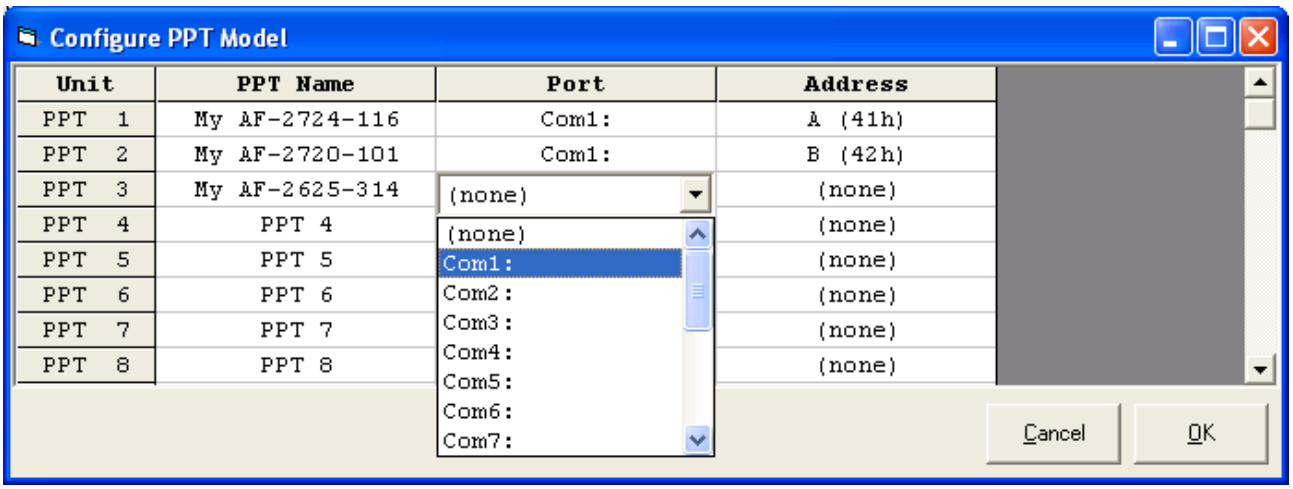
We need to tell the PPT monitor software about the network of PPTs connected to the PC. Click on the **[File]** menu and then select **[Configure PPTs...]**.

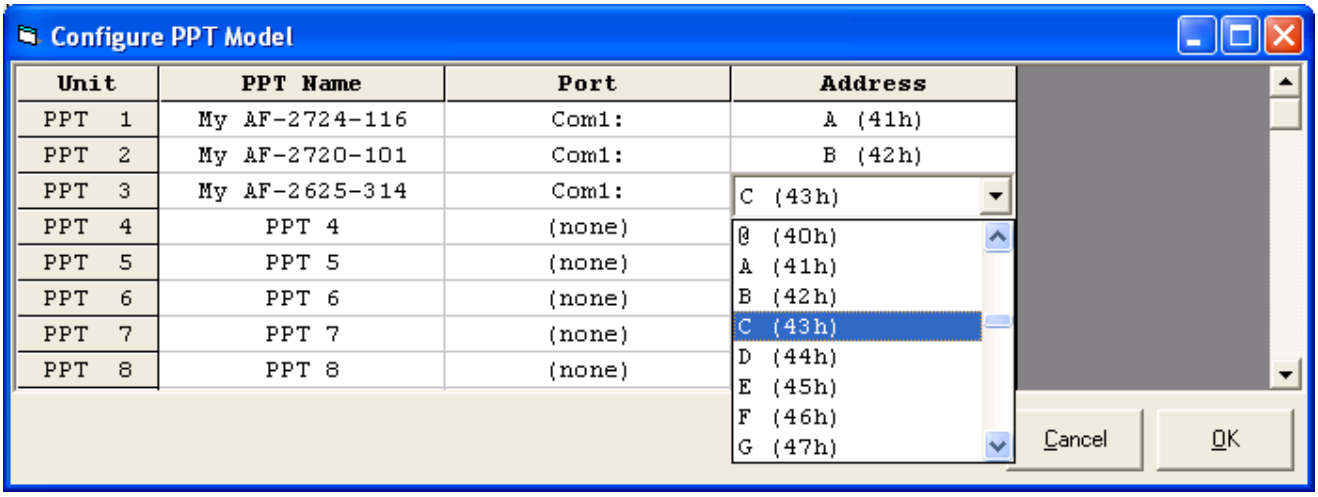


Unit	PPT Name	Port	Address
PPT 1	PPT 1	(none)	(none)
PPT 2	PPT 2	(none)	(none)
PPT 3	PPT 3	(none)	(none)
PPT 4	PPT 4	(none)	(none)
PPT 5	PPT 5	(none)	(none)
PPT 6	PPT 6	(none)	(none)
PPT 7	PPT 7	(none)	(none)
PPT 8	PPT 8	(none)	(none)

The Configure PPTs screen is where you tell the monitoring software about all of the AF-27xx-xxx PPTs connected to the PC, and how to communicate with them. The PPT monitoring software can manage up to sixty four PPTs.

For each PPT connected to the PC, enter a PPT NAME. PPT NAME can be any arbitrary text that is useful to identifying the individual PPT to the system operator. PPTs are commonly named by the machine that they monitor. After naming a PPT, specify the com PORT, and ADDRESS used to communicate with that PPT.





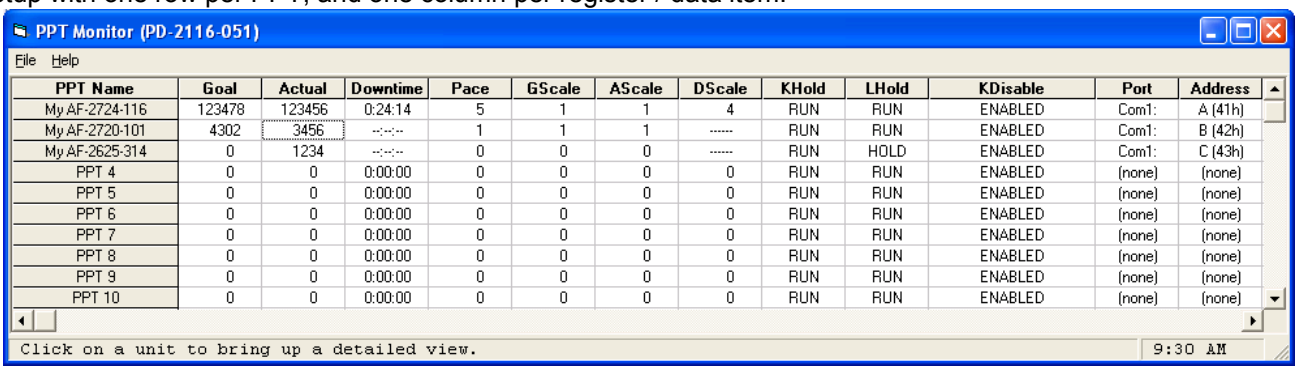
In the above example, the monitoring software is directed to gather data from three PPTs (My AF-2724-116, My AF-2720-101, and My AF-2625-314). All three PPTs are connect to the PC's COM1: serial port. My AF-2724-116 PPT has an assigned address of A 41h. My AF-2720-101 has an assigned address of B 42h. The AF-2625-314 has an assigned address of C 43h.

Once all of the PPTs have entries in the Configure PPT screen, click **[OK]** to continue.

Note: The AF-2625-314 counter is protocol compatible with the AF-2720-101 PPT. This allows mixing PPTs and counter/timer products on the the same RS-485 network. It is important to note when mixing counter/timers with PPTs that the counter timer only implements the ACTUAL register. All other registers are "dummies" to create protocol compatibility with the AF-2720-101 PPT.

2.0 System Overview Screen

The system overview screen summarizes the condition of all the PPTs in a spreadsheet like grid. The grid is setup with one row per PPT, and one column per register / data item.



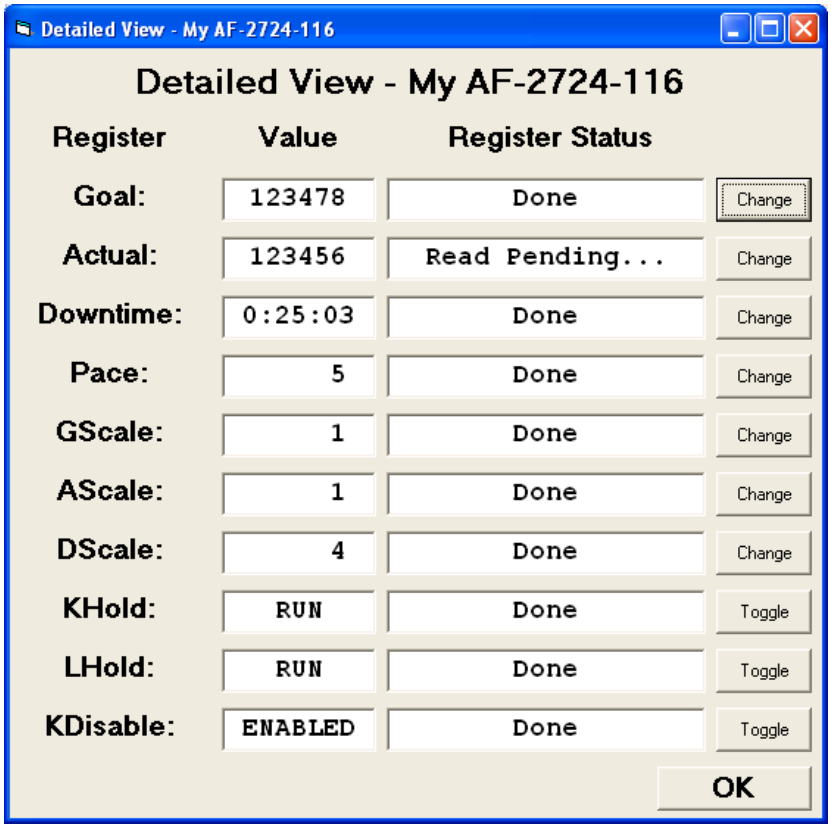
PPT Name	Goal	Actual	Downtime	Pace	GScale	AScale	DScale	KHold	LHold	KDisable	Port	Address
My AF-2724-116	123478	123456	0:24:14	5	1	1	4	RUN	RUN	ENABLED	Com1:	A (41h)
My AF-2720-101	4302	3456	--:--:--	1	1	1	------	RUN	RUN	ENABLED	Com1:	B (42h)
My AF-2625-314	0	1234	--:--:--	0	0	0	------	RUN	HOLD	ENABLED	Com1:	C (43h)
PPT 4	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 5	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 6	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 7	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 8	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 9	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 10	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)

Columns are provided for the following register and data items:

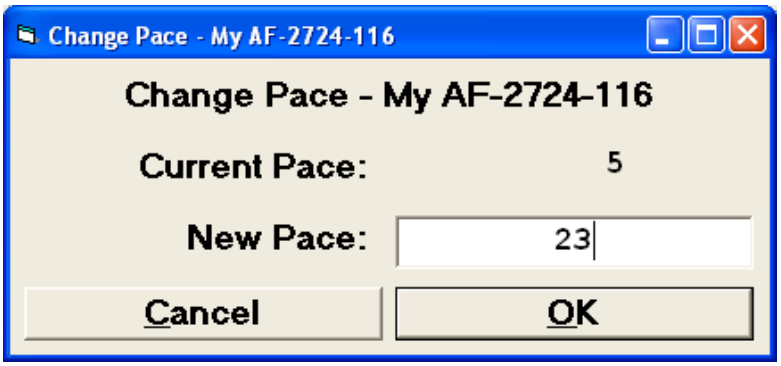
Register / Data Item	***Description***
PPT Name	The operator assigned name for this PPT.
Goal	The current accumulated goal count displayed on the PPT.
Actual	The current accumulated actual count displayed on the PPT.
Downtime	The current accumulated downtime. (Note: Downtime is an optional PPT feature)
Pace	The Pace Time setting of the PPT
GScale	The Goal Scale Setting of the PPT
AScale	The Actual Scale Setting of the PPT
DScale	The Automatic Down Scale setting of the PPT. (Requires Downtime option)
KHold	The Keypad Hold State of the PPT
LHold	The state of the PPT's HOLD logic input. (This is read only)
KDisable	The Keypad Disable state of the PPT
Port	The serial port used to communicate with this PPT
Address	The address of this PPT
Status	The status of the last attempt to communicate with this PPT

2.1 Adjusting Individual PPT Register Values

To adjust PPT counts and settings, first click on the PPT NAME to bring up the detailed view, and then click on the change button of the register you wish to adjust. Next type the new register value into the change dialog and then click on OK to apply the change.

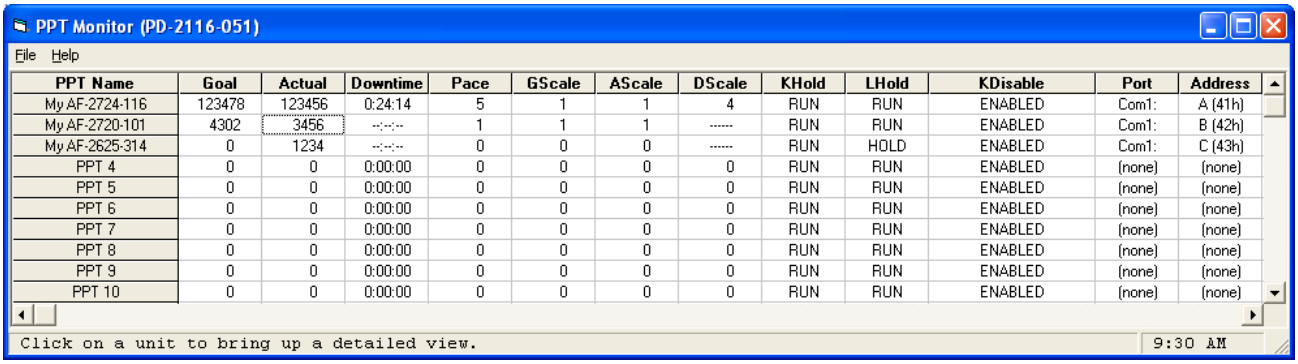


The image above show the detailed view for the AF-2724-116 PPT. To change the PACE setting, click the **[Change]** button to the right of PACE. This will bring up the dialog shown below. To change the PACE setting form 5 to 23, type 23 into the NEW PACE text box, and then click **[OK]**.



2.2 Adjusting a Register in all PPTs at the Same Time

To adjust a register in all of the PPTs at the same time, click on the register name. For example, to set the Keypad Run/Hold state of all three PPTs at the same time, click on the KHOLD column heading.



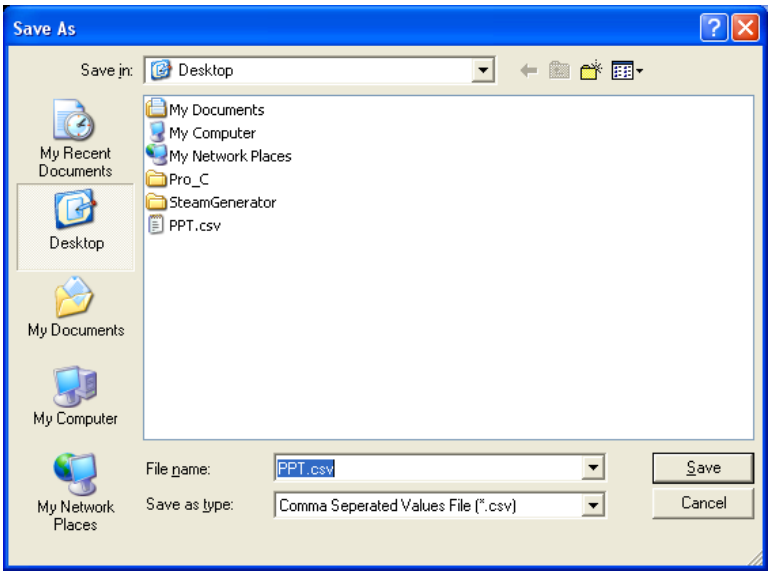
PPT Name	Goal	Actual	Downtime	Pace	GScale	AScale	DScale	KHold	LHold	KDisable	Port	Address
My AF-2724-116	123478	123456	0:24:14	5	1	1	4	RUN	RUN	ENABLED	Com1:	A (41h)
My AF-2720-101	4302	3456	--:--:--	1	1	1	------	RUN	RUN	ENABLED	Com1:	B (42h)
My AF-2625-314	0	1234	--:--:--	0	0	0	------	RUN	HOLD	ENABLED	Com1:	C (43h)
PPT 4	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 5	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 6	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 7	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 8	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 9	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)
PPT 10	0	0	0:00:00	0	0	0	0	RUN	RUN	ENABLED	(none)	(none)

This will summon the Change All Keyapd Run/Hold Registers dialog shown below. Clicking on **[Set to Hold]** button will set all three PPTs to hold mode at the same time.

2.3 Manually Exporting PPT Data

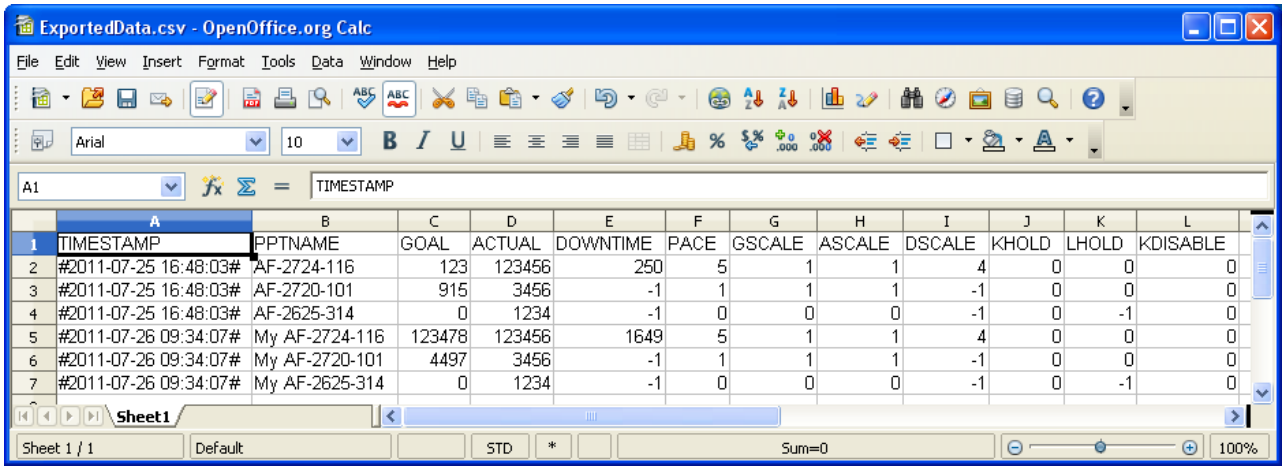
The Export feature allows the operator to export the current PPT states to a CSV (Comma Separated Values) file. This file can be read by any spread sheet application such as Microsoft Excel or Open Office Calc.

To execute the export, click on the **[File]** menu and then select **[Export PPT Data to CSV File...]**. The system "Save As" dialog box will come up. Select the location you would like the report file to be written to, and then click **[Save]**.



The contents of an example CSV export is shown below for your reference.

```
"TIMESTAMP","PPTNAME","GOAL","ACTUAL","DOWNTIME","PACE","GSCALE","ASCALE","DSCALE","KHOLD","LHOLD","KDISABLE"
#2011-07-25 16:48:03#,"AF-2724-116",123,123456,250,5,1,1,4,0,0,0
#2011-07-25 16:48:03#,"AF-2720-101",915,3456,-1,1,1,1,-1,0,0,0
#2011-07-25 16:48:03#,"AF-2625-314",0,1234,-1,0,0,0,-1,0,-1,0
#2011-07-26 09:34:07#,"My AF-2724-116",123478,123456,1649,5,1,1,4,0,0,0
#2011-07-26 09:34:07#,"My AF-2720-101",4497,3456,-1,1,1,1,-1,0,0,0
#2011-07-26 09:34:07#,"My AF-2625-314",0,1234,-1,0,0,0,-1,0,-1,0
```



	A	B	C	D	E	F	G	H	I	J	K	L
1	TIMESTAMP	PPTNAME	GOAL	ACTUAL	DOWNTIME	PACE	GSCALE	ASCALE	DSCALE	KHOLD	LHOLD	KDISABLE
2	#2011-07-25 16:48:03#	AF-2724-116	123	123456	250	5	1	1	4	0	0	0
3	#2011-07-25 16:48:03#	AF-2720-101	915	3456	-1	1	1	1	-1	0	0	0
4	#2011-07-25 16:48:03#	AF-2625-314	0	1234	-1	0	0	0	-1	0	-1	0
5	#2011-07-26 09:34:07#	My AF-2724-116	123478	123456	1649	5	1	1	4	0	0	0
6	#2011-07-26 09:34:07#	My AF-2720-101	4497	3456	-1	1	1	1	-1	0	0	0
7	#2011-07-26 09:34:07#	My AF-2625-314	0	1234	-1	0	0	0	-1	0	-1	0

2.3 Automatically Exporting PPT Data

In addition to manually exporting PPT Data, you my also setup automatic PPT Data Export.

The Automatic Export feature appends the current PPT states to a CSV (Comma Separated Values) file. This file can be read by any spread sheet application such as Microsoft Excel or Open Office Calc. The automatically generated CSV file is stored in the "current working directory". The default working directory, is the directory the PPTMonitor.exe program is installed in, but can be changed by editing the ICON used to start the program.

The generated CSV file, is named by the PC's real time clock date: **yyyy_dd_mm.CSV.**

To configure the automatic export schedule, click on the **[File]** menu and then select **[Configure Automatic Export Schedule...]**. Then check the times you would like to export PPT data, and then click **[OK]** to save the new schedule.

3.0 In Case of Difficulties

Before contacting ALI for technical support, please review the manual sections covering installation and operation.

3.1 Contacting American LED-gible® Inc.

If you need technical assistance, contact us by phone or fax and please have the following information available:

1) Model number.
2) Serial number.
3) Description of the problem.

The serial number and model number of the marquee can be located on the right side of the unit imprinted on a SILVER ID TAG.

American LED-gible Inc.
(614) 851-1100
January 2010
Model # SO-9992-001
Serial # SO-9992-101

American LED-gible technical support may be reached at:

American LED-gible® Inc.
1776 Lone Eagle St.
Columbus, OH 43228
(614) 851-1100 Phone
(614) 851-1121 Fax
www.ledgible.com www
ledgible@ledgible.com e-mail

4.0 Limited Warranty

We warrant to you that your AMERICAN LED-gible® BRAND MARQUEE, when purchased by you, will be free from defects in material and workmanship, under normal use, for one year from date of delivery. If your LED-GIBLE® BRAND MARQUEE should prove to be defective within the warranty period, we will repair it (or, if we think necessary, replace it) without charge to you.

To obtain service, please call our Customer Service Department at 1-614-851-1100 or write to:

AMERICAN LED-gible® Inc.
1776 LONE EAGLE STREET
COLUMBUS, OHIO 43228

We will furnish you with shipping instructions. This warranty covers merchandise returned to American LED-gible® (shipped prepaid) for repair, not in plant repairs. Should you need an in plant repair at your facility, American LED-gible® will schedule a trip. Rates are per diem, plus travel expenses.

ALI shall have the right of final determination as to the existence and cause of the defect. This warranty expressly excludes any defects or damages caused by accessories, replacement parts, or repair service, other than those which have been authorized by ALI. This warranty does not cover any damage caused by accident, misuse, shipment, or other than ordinary use.

This warranty excludes all incidental or consequential damages. Some states do not allow the exclusion of, or limitation of, incidental or consequential damages, so the foregoing exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. This warranty is in lieu of any other warranty, express, written, implied, or statutory, and no agreement extending or modifying it will be binding upon ALI, unless in writing and signed by duly authorized officer.

If your AMERICAN LED-gible® MARQUEE is outside the warranty period, please call our Customer Service Department as above. After you return the unit to American LED-gible®, we will estimate the repair charges, and contact you so a purchase order can be issued. Again, should you require in-house repair of your marquees, ALI rates are per diem, plus travel expenses. Please make sure to call, so a trip can be scheduled if this option is preferred.

LIMITATION OF LIABILITY:

If this product is not in good working order as warranted above, your sole remedy shall be repair or replacement as provided above. In no event will ALI be liable for special, indirect, or consequential damages, or any damages whatsoever resulting from loss of use, data, or profits arising out of, or in connection with this contract or the use or performance of ALI products, whether in an action of contract or tort, including negligence. ALI's liability for damage to property shall be limited to the cost of the product sold to the buyer.

5.0 ASCII Chart

ASCII CHARACTER	Hexadecimal Code	Decimal Code
CTRL-A	01h	1
CTRL-B	02h	2
CTRL-C	03h	3
CTRL-D	04h	4
CTRL-E	05h	5
CTRL-F	06h	6
CTRL-G	07h	7
CTRL-H	08h	8
CTRL-I	09h	9
CTRL-J	0Ah	10
CTRL-K	0Bh	11
CTRL-L	0Ch	12
CTRL-M	0Dh	13
CTRL-N	0Eh	14
CTRL-O	0Fh	15
CTRL-P	10h	16
CTRL-Q	11h	17
CTRL-R	12h	18
CTRL-S	13h	19
CTRL-T	14h	20
CTRL-U	15h	21
CTRL-V	16h	22
CTRL-W	17h	23
CTRL-X	18h	24
CTRL-Y	19h	25
CTRL-Z	1Ah	26
CTRL-[	1Bh	27
CTRL-\	1Ch	28
CTRL-]	1Dh	29
CTRL-^	1Eh	30
CTRL-_	1Fh	31
SPACE	20h	32

ASCII CHARACTER	Hexadecimal Code	Decimal Code
!	21h	33
"	22h	34
#	23h	35
$	24h	36
%	25h	37
&	26h	38
'	27h	39
(	28h	40
)	29h	41
*	2Ah	42
+	2Bh	43
,	2Ch	44
-	2Dh	45
.	2Eh	46
/	2Fh	47
0	30h	48
1	31h	49
2	32h	50
3	33h	51
4	34h	52
5	35h	53
6	36h	54
7	37h	55
8	38h	56
9	39h	57
:	3Ah	58
;	3Bh	59
<	3Ch	60
=	3Dh	61
>	3Eh	62
?	3Fh	63
@	40h	64

ASCII CHARACTER	Hexadecimal Code	Decimal Code
A	41h	65
B	42h	66
C	43h	67
D	44h	68
E	45h	69
F	46h	70
G	47h	71
H	48h	72
I	49h	73
J	4Ah	74
K	4Bh	75
L	4Ch	76
M	4Dh	77
N	4Eh	78
O	4Fh	79
P	50h	80
Q	51h	81
R	52h	82
S	53h	83
T	54h	84
U	55h	85
V	56h	86
W	57h	87
X	58h	88
Y	59h	89
Z	5Ah	90
[	5Bh	91
\	5Ch	92
]	5Dh	93
^	5Eh	94
_	5Fh	95
'	60h	96

ASCII CHARACTER	Hexadecimal Code	Decimal Code
a	61h	97
b	62h	98
c	63h	99
d	64h	100
e	65h	101
f	66h	102
g	67h	103
h	68h	104
i	69h	105
j	6Ah	106
k	6Bh	107
l	6Ch	108
m	6Dh	109
n	6Eh	110
o	6Fh	111
p	70h	112
q	71h	113
r	72h	114
s	73h	115
t	74h	116
u	75h	117
v	76h	118
w	77h	119
x	78h	120
y	79h	121
z	7Ah	122
{	7Bh	123
|	7Ch	124
}	7Dh	125
~	7Eh	126
DELETE	7Fh	127

6.0 Operator Notes