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## Application: Record Voltage/Current input by ISaGRAF PAC every 20 ms for 1 to 10 minutes. Then send this record file by email.

Download FAQ-072 Demo.

Note that WinCon-8xx7 has been phased out, visit to the ISaGRAF website for more information ablout new products https://www.icpdas.com/en/product/guide+Software+Development\_\_Tools+ISaGRAF

This sample applies in one 3-slot or 7-slot WinCon-8xx7 with one I-8024 in its slot No.2 and one I-8017H in its slot No. 3. Then connect I-8024 's Ch.1 to Ch.4 voltage output to I-8017H 's Ch.1 to Ch.4 voltage input.

The I-8024 in this sample will generate 4 voltage output curves to I-8017H. This sample will record I-8017H 's Ch.1 to Ch.4 voltage inputs to a "User-allocated RAM memory". It can record totally 1 to 10 minutes. When it is finished, these records are saved to a file, then WinCon-8xx7 will send it by Email. The ISaGRAF demo program name is "Wdemo\_66.pia ", please visit http://www.icpdas.com/en/faq/index.php?kind=280#751 FAQ- 072 to download it.

For more information about sending email by using ISaGRAF PAC, please visit FAQ-067. For more information about "User-allocated RAM memory" and "File operation functions", please visit FAQ-057 and FAQ-060.

To send email correctly, please set proper Gateway IP in the PAC's Ethernet port setting. Please type command "**ipconfig**" on a PC 's command prompt window at the same local network to get the Gateway IP setting as below. (Here is 10.0.0.254)

C:\Documents and Settings\Administrator> ipconfig	<b>A</b>
Windows IP Configuration	
Ethernet adapter 區域連線:	
Connection-specific DNS Suffix . : banchiao.icpdas.com IP Address : 10.0.0.91 Subnet Mask : 2 <del>55.255.25</del> 5.0 Default Gateway 10.0.0.254	
C:\Documents and Settings\Administrator>	•
<u>,</u>	

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Then, fill-in this G 3747, you can en	•	•		•	• •		-
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	tility 1 for W-8X			Jpdate Com	About WinCon	Utility 1 Te	OK ×
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Email demo dow	nload from FA	Q <i>—</i> 072 is "V	Vdemo_66.	pia".			
Please modify at	least the below	v setting in	the demo p	rogram to y	our own sett	ing.	
TMP := MA	NIL_SET( 1, 'chu	n@icpdas.c	om' ) ;	(* Rece	iver 1. please	modify it	*)
	UL SET (100 'a)	o mao@hc	tmail.com'	);(* Send	er. please mo	dify it *)	
TMP := MA	NL_3LI(100, g						
TMP := MA	NIL_SET( 101, '1	_ 68.95.4.211	L');		Server 1's IP,	-	
TMP := MA Then re-compile	IL_SET( 101, '1	– 68.95.4.211 wnload it to	L' ) ; o the PAC to	run. The be	elow windows	will show	
TMP := MA	IL_SET( 101, '1 it and then dow is the reco	68.95.4.211 wnload it to ording peric	L' ) ; o the PAC to od, unit is m	run. The be inute, value		will shov .0.	v up.
TMP := MA Then re-compile <b>"Period1"</b>	IL_SET( 101, '1 it and then dow is the reco is the reco	68.95.4.211 wnload it to ording peric ording inter	L' ) ; the PAC to od, unit is m val, unit is r	run. The be inute, value ns (0.001 se	elow windows e can be 1 to 1	will shov .0. can be 10	v up. to 10000.
TMP := MA Then re-compile <b>"Period1"</b> <b>"Interval1"</b>	it and then dow is the reco is the reco is the reco is the tota	68.95.4.211 wnload it to ording peric ording inter Il record am	L' ) ; the PAC to od, unit is m val, unit is r	run. The be inute, value ns (0.001 se alculated a	elow windows e can be 1 to 1 econd), value (	will shov .0. can be 10	v up. to 10000.

reach value of "**total\_record1**". Then it will start to save all records into a file. If saving file is finished, value of "**save\_cnt1**" should reach value of "total\_record1". Then W-8xx7 will send an email with this attached file.

Few seconds later, value of "Email\_state" will be 21 or 22 if succeed. However value of "Email\_state" will be less than 0 if failed. When "Email\_progress" reach value of 100, it means the email data is 100% sent.

Name	Value	Comment	
Period1	1	Init as 1 .Record period, Integer format, unit is minute	[
Interval1	20	init as 20, Integer format, unit is ms	1
Msg1	The record file is sen	t succes: operation stste	
total_record1	3000	total record number calculated by WPeriod1 & WInterval1	
record_cnt1	3000	current count of record	
save_cnt1	3000	current save count, addr= 9	
Go1	FALSE	Set as TRUE to start recording, addr=21	
EMAIL_state	21	0:Sleep, 1:Busy ,21:server1 , 22:server2 succeed, <0 :Error	
EMAIL_progress	100	progress: 0:No action, 1 - 10:connecting , 11, 100 : percent	

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•	i8017H[	[2]=-1		İ	8017H[3]=65	53	•				
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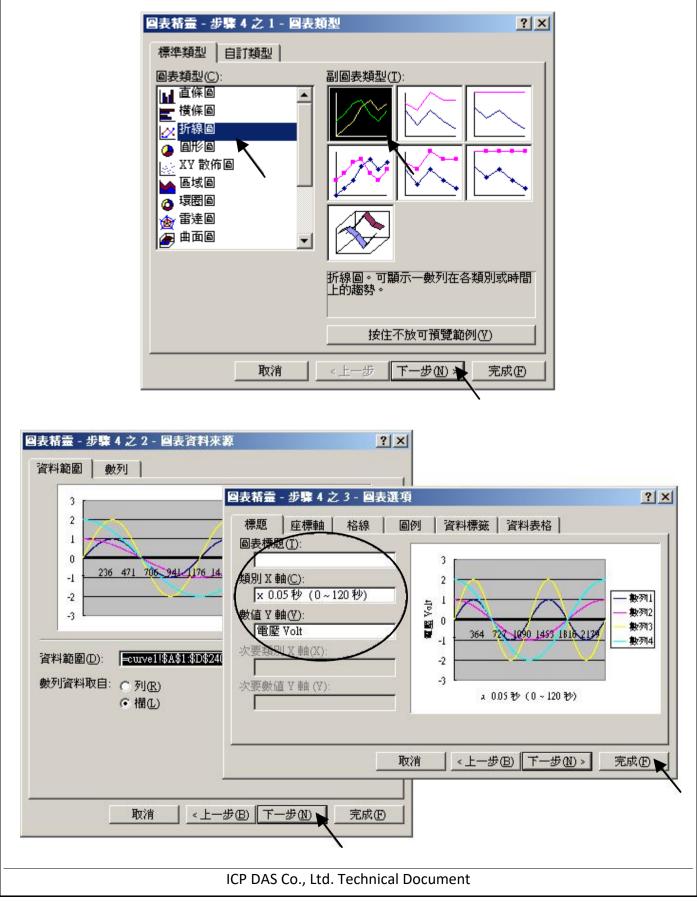
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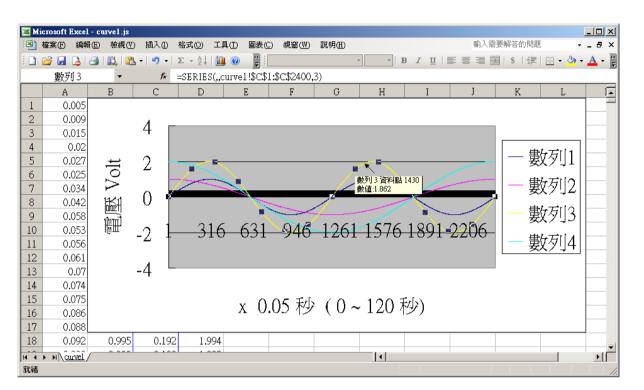
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By the procedure, you will get the trend curve as the below window. You can modify its size, or check at any trend line. If you move your mouse to point at some position at the trend line, the related data is shown.



Please save this trend curve diagram as a "**Microsoft Office Excel (\*.xls)**" format. Then at any later time, you can open it to display the trend curve directly.

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		檔案類型(I): ISaGRAF F/	: <u>  和平 (*</u> .   文字檔 AQ:	<u>xit)</u> (Tab 字元分隔) (*.t	xt)		
		檔案類型(I): ISaGRAF F/	: <u>  和平 (*</u> .   文字檔 AQ:	<u>xit)</u> (Tab 字元分隔) (*.t	xt)		
		檔案類型(I): ISaGRAF F/	: <u>  和平 (*</u> .   文字檔 AQ:	<u>xit)</u> (Tab 字元分隔) (*.t	xt)		
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