

Comprehensive Device Management Program DAQMaster Tutorial

Technical Support Manual



Thank you very much for selecting Autonics products. For your safety, please read the following before using.

Preface

Thank you very much for selecting Autonics products.

Please familiarize yourself with the information contained in the **Safety Precautions** section before using this product.

This user manual contains information about the product and its proper use, and should be kept in a place where it will be easy to access.

Technical Support Manual Guide

- Please familiarize yourself with the information in this manual before using the product.
- This manual provides detailed information on the product's features. It does not offer any guarantee concerning matters beyond the scope of this manual.
- This manual may not be edited or reproduced in either part or whole without permission.
- This manual is not provided as part of the product package. Please visit our home-page (www.autonics.com) to download a copy.
- The manual's content may vary depending on changes to the product's software and other unforeseen developments within Autonics, and is subject to change without prior notice. Upgrade notice is provided through our homepage.
- We contrived to describe this manual more easily and correctly. However, if there are any corrections or questions, please notify us these on our homepage.

Technical Support Manual Symbols

Symbol	Description
Note	Supplementary information for a particular feature.
🛕 Warning	Failure to follow instructions can result in serious injury or death.
A Caution	Failure to follow instructions can lead to a minor injury or product damage.
Ex.	An example of the concerned feature's use.
×1	Annotation mark.

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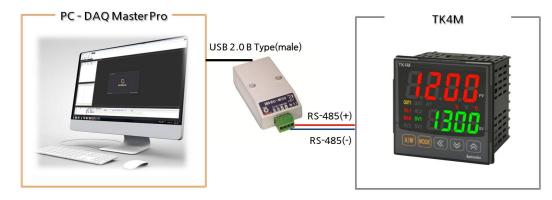
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1 System

1.1 Version

Software	Version	Note
DAQMaster Free	V 2. 0. 3	_
Ms Windows	Windows 7	—

1.2 Connections



1.3 Communication device and cable connection

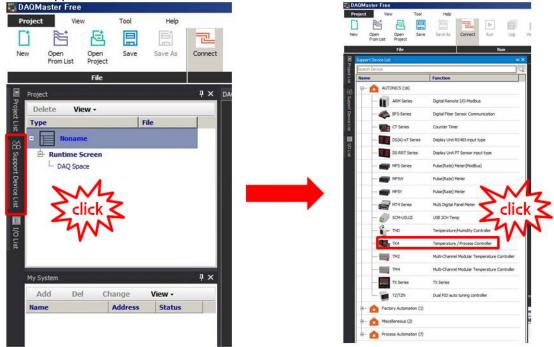
Device	Model	Note
Communication converter	SCM-US48I	-
Temperature controller	TK4M-B4CR	_

SCM-US48I	Cable connection	TK4M
RS 485 (A+)		RS 485 (A+)
RS 485 (B-)		RS 485 (B-)

2 Connection Method

2.1 Connection method

1st Click 'Support Device List' and select the device to be connected.



2nd At DAQ Interface dialog box, select 'RS-232'.

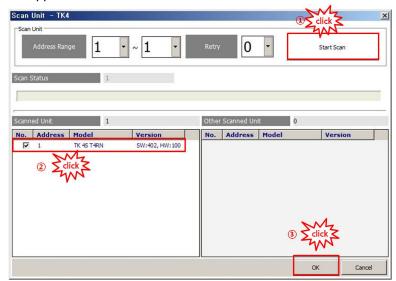
'K4 - DAQ Interface		×
New DAQ Interface	Added DAQ Interface	
RS-232		
TCP/IP		
	Click Z	Cancel

- R5-232 My System **Д** X General Name Add Del Change View -Address Status COM click RTU, 3 Nisconnect nfigu Name wuto Search COM12=VCP0 38400 - RS-232 🗄 ModBus Master eck Pa oo Bi - 🚮 ТК4 AUTONICS (0) EA it Per Byte ardware R Co фх Ψ× R5-232 ARTER FRANCE TR Co Status Add (0) EA
- 3rd At My System, click 'RS-232' and at Property, set the communication settings same as the device to be connected.

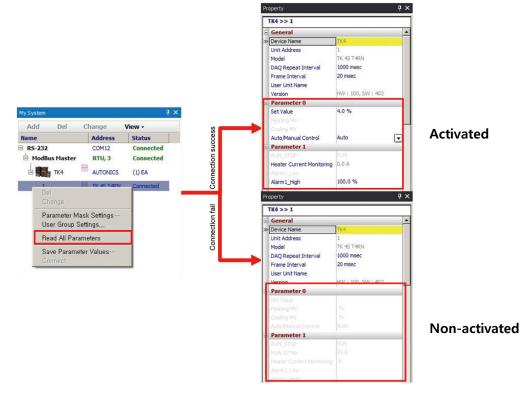
4th Click 'Connect' and at My System, click 'Scan Unit Address'.



5th As the below order, it scans the connected unit(s). When the unit is not connected, the list is not appeared.



6th Click 'Read All Parameters'.



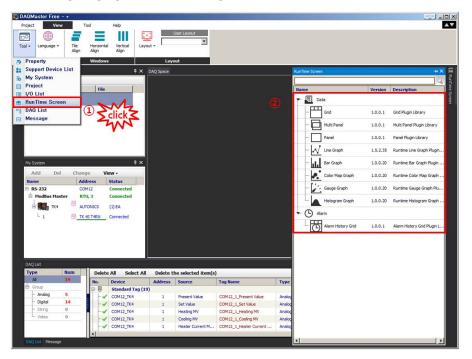
- * When connection is fail, check the below list.
 - 1) Check communication cables.
 - 2) Check communication port.
 - 3) Check the device address and communication settings.

2.2 Monitoring

1st (Click [To	ol] – [I/O List].	
	DAQN	laster Free -	*	
	Projec	t View		Гооі
		Language +	Tile	Horizontz
	1001 •	Lunguage	Align	Align
	🧿 Pro	perty		Window
	👪 Su	pport Device	List	and characteristic
	h My	System	_ E	
	bind	iject		File
	I/0	List		
	📶 Ru	nTime Screer	1	
	DA	Q List		
	🖂 Me	ssage		

2nd Click 'Add to DAQ list', and tag list is added at DAQ List.

Source					0								
Device	Source	Interface				1							
œ— ВБ у тка	Add to Da	AQ list		Ĵ		k s							
	Ţ覆 Expand /												
	- Collapse	All											
	View Onl	ly Available I	1/0	1									
	_		-	-									
DAQ List													
DAQ List Type	Num		D	elete	All Selec	t All Delete	the selected item(s)					
Type All	Num 19	2			All Selec		the selected item(s) Tag Name	Type	R/W	Read Mode	Unit	Calcula
Туре		2	No			Address			Туре	R/W	Read Mode	Unit	Calcula
Type All		2	No	+	Device	Address			Type	R/W	Read Mode Cont	Unit	Calcula
Type All Group	19	2	No	+	Device Standard Ta	Address ag (19)	Source	Tag Name				Unit	
Type All Group Analog	19 5	2	No		Device Standard Ta COM12_TK4 COM12_TK4	Address ag (19)	Present Value	COM12_1_Present Value COM12_1_Set Value	Analog	R R	Cont	Unit %	4
Type All Group Analog Digital	19 5 14	2	No		Device Standard Ta COM12_TK4 COM12_TK4 COM12_TK4	Address ag (19) 1 1	Present Value Set Value Heating MV	COM12_1_Present Value COM12_1_Set Value COM12_1_Set Value COM12_1_Heating MV	Analog Analog Analog	R R	Cont Cont		4
Type All Group - Analog - Digital - String	19 5 14 0	2	No		Device Standard Ta COM12_TK4 COM12_TK4	Address ag (19) 1 1 1	Present Value Set Value	COM12_1_Present Value COM12_1_Set Value	Analog Analog	R R R	Cont Cont Cont	%	4



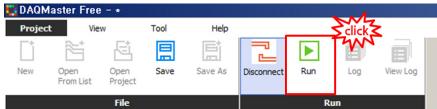
3rd Click [Tool] – [RunTime Screen], and click the desired run time screen.

4th At runtime screen, add tag and click 'Run' and it starts monitoring.

voject Vie	ew Tool	Help								
1 18	년 📄									
ew Open	Open Save	Save As Discon		View Log						
From List	Project									
	File		Run							
Project		a i	× DAQ Space (2)	click	2					
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Type		le		- Note						
			1							
I Nonar										
🖻 Runtime										
E DAQ S	pace		📻 Hulti Pa	nel				_10	괴츠	
	Multi Panel M	lulti Panel				14.5 4	0-			
	*			rese	ent val	ue 12_1	_se	t valu	e	
						%		9/	0	
My System		a :	×		0.			4.0		
Add De	el Change	View -							/	
Name	Address	Status								
- RS-232	COM12	Connected		0 -	4.00					
HodBus Ma		Connected	-06	오우	4:52:	59 -06 오	(우 4	15215	8	
на тка	100	(1) = 1	Tag Name		Time					
		(1) EA		112_1_Present		6 오후 4:52:59				
L 1	TK 45 T4RN	Connected		112_1_Set Value		6 오후 4:52:58				
							_			
1										
					Diagau	rop				
DAQ List									JISSER	
Туре	Num	De	lete All Select Al	Delete t	he selected item(s)				-10393	
Type All	Num 19	tho.	Bevice	Delete t	he selected item(s)		Type R	/W Read Mode	Unit	Calcu lat
Type Al Group	19		Bevice Standard Tag (1	Delete t Address	he selected item(s)	Tay Hame	1			Calculat
Type All Group All Analog	19 5	tho.	Bevice Standard Tag (1 COM12_TK4	Delete t Address 9)	he selected item(s) Source Present Value	Tag Name COM12_1_Present Value	Analog	R Cont	%	Calcu lat
Type All Group - Analog - Digital	19	tho.	Bevice Standard Tag (1 ✓ COM12_TK4 ✓ COM12_TK4	9) Delete t Address 9) 1 1	he selected item(s) Source Present Value Set Value	Tag Name COM12_1_Present Value COM12_1_Set Value	Analog Analog	R Cont R Cont	%	Colculat
Type All Group All Analog	19 5 14	tho.	Device Standard Tag (1 ✓ COM12_TK4 ✓ COM12_TK4 ✓ COM12_TK4	9) 1 1 1 1	he selected item(s) Source Present Value Set Value Heating MV	Tag Name COM12_1_Present Value COM12_1_Set Value COM12_1_Heating MV	Analog Analog Analog	R Cont R Cont R Cont	% % %	* * *
Type All Group - Analog - Digital - String	19 5 14 0	tho.	Bevice Standard Tag (1 ✓ COM12_TK4 ✓ COM12_TK4	9) Delete t Address 9) 1 1	he selected item(s) Source Present Value Set Value	Tag Name COM12_1_Present Value COM12_1_Set Value	Analog Analog	R Cont R Cont	%	Calculat , , ,

2.3 Data log

1st After connecting, click 'Run'.



2nd At the desired time to start logging, click 'Log'.

Project	Vie	w	Tool	Help				Sclick
New New	Open From List	Open Project	Save	Save As	Disconnect	Stop	Log	View Log

3rd At the desired time to stop logging, click 'Stop Logging'.

Project	Vie	w	Tool	Help				Sclick	2	
New	Open From List	Open Project	Save	Save As	Disconnect	Stop	Stop Logging	View Log	Log Start Time Elapsed Time	12-06 16:59:37 00 00:00:04
		File				R	un			Log

4th Select the data type to save and click 'OK'.

File name:	noname	select OK
Save as type:	DAQ Data File(*,ddf) CSV File(*,csv)	Cancel

- * ddf file -Available format for data analysis at DAQMaster
- * csv file Text data file format
- Note) 'Log Data Schedule' function is supported as below path.

Project			P × DAQ Space	() , p	Property		ųΧ
View -					Project		
Туре	Fi	0	.	6	General		
Inname Noname DAQ Space					Project Name Company User Description	Noname	
				9	Data File		
					Data Folder Data File Creation Rules CSV Time Type	yyyy-mm-dd hh.nn	
			₽×	2	Log Data Schedule		
My System Add Del (Change	View -	* ×	17 ANS	Log Data Schedule Active Schedule	Schedule Setting : 0/0 OFF	
Name	Address	Status			When Opening Project		
					Run Mode Layout	None Default	



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Major Products

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Any proposal for a product improvement and development: Product@autonics.com

Dimensions or specifications on this manual are subject to change and some models may be discontinued without notice.

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