OPERATING MANUAL

SERVICE MONITORING TOOL for FUJITSU GENERAL INVERTER AND INVERTER MULTI AIR CONDITIONERS

UTY-ASSX

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CAUTION Please read the LICENSE AGREEMENT in the manual first.

PART NO. 9381051007

FUJITSU GENERAL LIMITED

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1. OVERVIEW

This application is a service monitoring tool for Fujitsu General inverter and inverter multi air conditioners.

It has the following four functions:

- Operation Monitoring
- Operation History display
- Error History display
- Protection Condition display

2. SYSTEM REQUIREMENTS

To use this program, the PC must have the following minimum specifications:

- Microsoft Windows 7*
 - * Machines upgraded from XP, Vista etc. are not assured.
- USB 1.1 or higher. This is required for the Communication control box. Please refer to section 6. CONNECTION for further details.
- Screen resolution greater than 1024x768 pixels.

3. INSTALLATION

3-1 Install the device driver

Decompress MCP2200 Windows Driver and install it according to the attached instruction

3-2 Install the application

Run setup.exe in the application folder. The program will be automatically installed.

3-3 Uninstall

Control panel \rightarrow Programs and features \rightarrow run

Note: For details on installation, refer to the file "installation.txt" in the application CD-ROM.

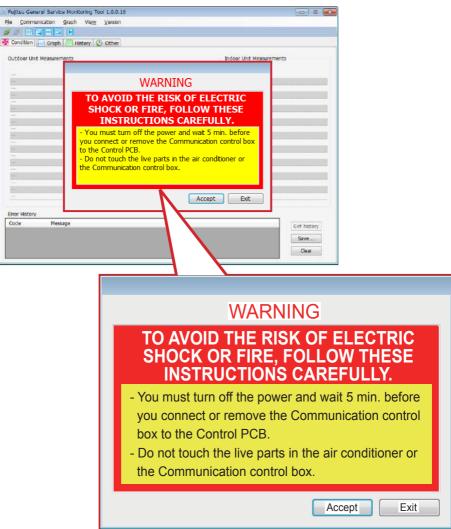
4. START-UP

4-1 Start-up application

Double-click "Service Monitoring Tool" icon in the start menu or desktop.

4-2 Start-up screen

WARNING will appear as follows. Read it and press "Accept".

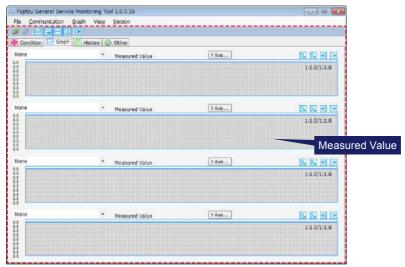


4-3 Screen layout

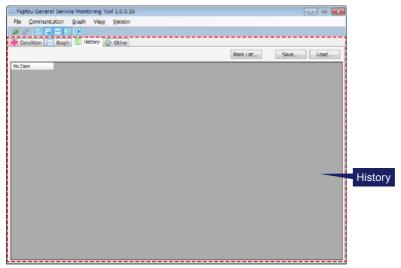
4-3-1 Condition display

Condition Graph Hist	ory 🚱 Other	Shortcuts	Indoor Unit Measurements		
			in a second second	an state	
			12		
	1			1	
	-				
			-		
			-		- Measureme
					Wiedsurenne
	Marine Marine		History and the state	and the state of the state of the	
			-		
			H		
					4
mor History					
Code Message				Get history	
			1	(high second se	

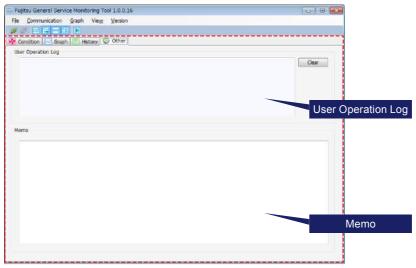
4-3-2 Graph display



4-3-3 History display



4-3-4 Other display



5. INITIAL SETTING

5-1 Application setting

From Main menu, go to Communication \rightarrow Setup, to open Setup window.

5-1-1 COM port setting (Fig. 5-1)

- Normally, it is configured automatically.
- If your PC has more than one COM port, select the COM port to be used under Available COM port.
- By checking Save COM port, the selected COM port is saved. During the next startup, the saved COM port is configured.
 - * When the USB port is switched, the COM port number may change. In that case, set the COM port number again.

5-1-2 Unit setting (Fig. 5-1)

The units for temperature and pressure can be selected.

Temperature:Celsius ↔ Fahrenheit, Pressure:Pa ↔ Psi

5-1-3 View setting (Fig. 5-1)

Sampling interval setting

It can be configured in the range of 1sec. - 60sec..

Horizontal axis configuration (Unit is second)

Fix time line ON —— Relative time display and not scrolled.

Fix time line OFF —— Absolute time display and scrolled.



Fig. 5-1

6. CONNECTION

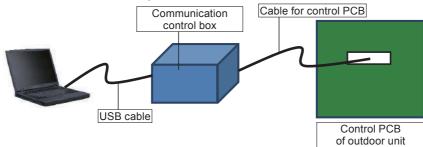
Connect the PC to the outdoor unit's PCB via the Communication control box (MA306 manufactured by Micro application).

There are two types of connectors on the control PCB.

Choose the cable required based on the two types listed below:

TYPE1 : PA connector -6 pin

TYPE2 : PA connector -10 pin



* When there is no connector on the control PCB.

The connector for communication may not be soldered onto the control PCB. In this case please use the following connector:

Connector

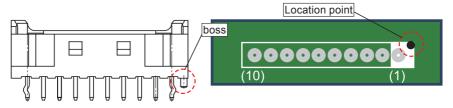
Manufacturer	Model number
JST	B10B-PASK-1

▲ Caution

You must turn off the power supply, before mounting the connector on the control PCB. (There is a possibility of electric shock.)

Please make sure the boss lines up with the locating point on the PCB.

Please be cautious when connecting the connector as it can cause damage if not fitted correctly.



You must turn off the power and wait 5 min. before you connect or remove the Communication control box to the Control PCB.

7. HOW TO USE

7-1 Start communication

Communication start

Click "communication start" 🛒 button.

Communication stop

Click "communication stop" 💕 button.

Fujitsu General Service Mon	itoring Tool 1.0.	0.16 - Stop communication		non E
le Communication Graph	View Vers	ion		
Condition	History 🚱 Oth	ar .		
Outdoor Unit Measurements	Com	munication stop	Indoor Unit Measurements	
Compresser of Comn	nunicatio	on start	Heat ex.(middle) A temp. Room A temp.	19.5 ° -10.5 °
Fan Motor2 sp			Room A Set temp.	4.0 *
EEV1 divergence	480.0 pls -30.0 °C			
Discharge Temp. Heat ex.(middle) temp.	-30.0 °C			
Heat ex.(liquid) temp.	-30.0 °C	The second second second second second		
Outdoor air temp.	-30.0 °C			
Compresser temp.	-30.0 °C			
Inverter heatsink temp.	0.0 °C			
Pressure	0.0 kPa			
DC Voltage	245.0 V			
Input Current	0.0 A			
Error code	26.0 -		And a second sec	
		in the second seco		
irror History				
Code Message				Get history
				Save
				Clear

This error message means there is a communication error. Confirm the followings.

- Is the power of target on?
- Is the cable correctly connected?
- Is the connector correctly connected?



A 100	mmunicating	
	Caution: Do n may be inacc	not find model data. Indicative data urate.
		Init Measurements

If the above alert message is shown in the upper right hand side of window, target model is not supported. Although communication and data reading is available, the data may not be correct.

7-2 Confirm running condition

7-2-1 Running condition display

Communication Graph	View Version		
Condition 🔚 Graph 📳 I	History 🥴 Other		
utdoor Unit Measurements		Indoor Unit Measurements	
ompresser frequency	0.0 mps —	Heat ex.(middle) A temp.	19.5 °C
an Motor1 speed	0.0 mm	Room A temp.	-10.5 °C
an Motor2 speed	mgn 0.0	Room A Set temp.	4.0 °C
EV1 divergence	480.0 pls		i
lischarge Temp.	-30.0 °C -		
leat ex.(middle) temp.	-30.0 °C		
leat ex.(liquid) temp.	-30.0 °C		
outdoor air temp.	-30.0 °C	Dunaning	. م (ام ام الله الم
ompresser temp.	-30.0 °C	Running con	attion dis
nverter heatsink temp.	0.0 °C	Charles and a second	
ressure	0.0 kPa		
IC Voltage	245.0 V		
nput Current	0.0 A		
mor code	26.0 -		
			i
	And the second se		
or History			
ode Message		1.1	and the second se
alasia www.elasia		6	et history
			Save
		Error history display	

See running condition

Running conditions of the outdoor unit and the indoor unit are shown in a table. Screen is updated according to the interval time configured in 5-1-3. Changes occurred in between intervals are not recorded and therefore will not be shown.

• Confirm error history

By pressing "Get History" during communication with air conditioner, error history saved in the internal memory of the air conditioner can be read.

This history includes errors occurred before the service monitoring tool is connected.

Save error history

You can save error history into a file by pressing "Save".

Delete error history

History screen can be deleted by pressing "Clear". (Internal memory is not deleted.)

7-2-2 Running condition graph display screen (Individual)

ujitsu General Service Monitorin	g Tool 1.0.0.16 - Stop communication		(-c-) 0 🔜
and the second se	ley Version		
	Item sele	ect	
Condition 🔛 Graph 🔄 Histor	y 🕒 Other	TO DAY TO DAY TO DAY	
empresser frequency [Outdoor]	Measured Value 0.0 rps	Y Axis	
	Cursor		1:1.0/1:50.0
1301/34 13/01/40			
n Motor1 speed [Outdoor]	 Measured value 0.0 rpm 	Y Axs	
			1:1.0/1:50.0
1303:00 1303:40			Manual scale adjustment
n Motor2 speed [Outdoor]	 Measured Value 0.0 rpm 	V Axis	
			1:1.0/1:50.0
13.01.00 13.01.40	107 STATE 117		
V1 divergence [Outdoor]	 Measured Value 480.0 pls 	Y Axis	
			1:1.0/1:0.1

Select display item

By clicking "Item select" shown above, you can select a display content to be shown in the graph pane.

<u>Confirm display</u>

The value at the current cursor position is displayed in "Measured Value". During communication, the cursor automatically moves along to the end of the curve.

The cursor can be moved by double-clicking onto the graph and the measured value at that point is displayed in "Measured Value".

 Graphs are synchronized and are scrolled together. By switching off the sync of multiple graphs using the button, they are no longer synchronized and are able to be scrolled individually.

Also, when the "auto scroll" is button is pressed, the graphs automatically scroll to the right.

To stop, press the "auto scroll" 🔀 button to release automatic scroll.

Scaling adjustment feature (vertical axis)

Automatic adjustment

When 🚰 is pressed, the scale of the vertical axis is automatically adjusted.

Manual adjustment (Maximum/Minimum)

By pressing the YAxis... button, the YAxis scale window is shown.

0 🗇 Minimum 0 🏚	Maximum	Reset
Minimum 0 ᆍ		0
0	Minimum	0.0
		0

Maximum/ Minimum of configured value is as below.

	Configured (Max)	Configured (Min)
Maximum	2000	-100
Minimum	100	-100

Also, if you delete the Maximum and Minimum values, this configuration is cancelled. When you configure Maximum or Minimum to a value other than zero, the button YAxis... turns orange and configuration becomes effective.

If you switch graph type (See 7-2-3), configuration is **reset**.

If you press the button Reset, configuration is reset.

If Minimum is bigger than Maximum, Maximum is automatically changed to Minimum+1.

Manual adjustment (Scale up/down)

Scale of vertical axis can be changed.

🕵 ... Scale up

<u> ...</u> Scale down

When automatic adjustment is valid, button operation becomes disabled.

• <u>Scaling adjustment feature (horizontal axis)</u> Scale of horizontal axis (time axis) can be changed.

强 ... Scale up

🔍 ... Scale down

• <u>Scroll feature (horizontal axis)</u> Horizontal axis (time axis) can be scrolled.

I... Scroll to left

III ... Scroll to right

Also, by dragging screen, scrolling is available.

	npresser frequency	[Outdoor] •	Measured Value	48.0 rps	Y Axis	
65.0 60.0 55.0 40.0 35.0 30.0 25.0	\sum	\sim		\bigwedge		g here
25.0	18:40:23	18:40:33	18:40:43	18:40:54	18:41:04	

By pressing Nove to head button, you can move to the head of the graph.

Load a record file

Record file is loaded. Graph is displayed.

Protection display (See 7-2-4) is not loaded.

• Maximum record time

It can be configured in 5-1 application setting. Maximum record time is changed depending on the sampling interval configuration.

When it is over the maximum record time, communication stops and the message below is shown.

10200	
	Warning : Recording data is over maximum time range. Stop communication.

7-2-3 Running condition graph display screen (collective)

Fujitsu General Service Monitoring Tool 1.0.0.16 - Stop communication	0 B -8
Fle Communication Graph View Version	
A CORE N	
Scondition Graph E History C Other	
Y Avis	🗵 Legend 🛛 🔝 💷 🗈
893.4	1:1.0/1:0.5
Display switch	Compressor frequency Fan Webro/Tapend ERV (divergence Discharge Temp, Hear en(uidde)/temp, Hear en(uidde)/temp, Oudeor air temp, Oudeor air temp, Compressor temp, Dovertere activitik temp, Portere activitik temp, Room A Long, Devertere Hear Current Room A Sat temp, Erver code
204 304 304 50139 L0140	

Display switch

By processing the display switch button, the graph type can be switched from individual to collective.

Basic operation method is the same as individual display.

• Legend display

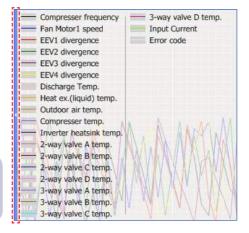
Legend display can be switched on/off by Legend check box.

Legend display can be changed by clicking the part indicated in the figure.

Also, by clicking on each item, graph display can be switched on/off.

* When display of a particular item is switched off, it becomes gray.

If abnormal data is received (such as communicating with wrong model), communication data is not updated.



7-2-4 Confirm status of Protective function.

sser frequency [Outdoor]	Measured Value 0.0 rps	Y ANS	
			1:1.0/1:50.0
01.09 13:01:40 tor1 speed [Outdoor]	Protection dete	cted 🚛	
			1:1.0/1:50.0
etde 13e1540	* Measured Value 0.0 rpm	Y ANS	
	Measured value 0,0 (p)()	[[1808.4.]]	1:1.0/1:50.0
01.30 13:01:40			
ivergence [Dutdoor]	 Measured Value 480.0 pls 	Y Axis	3 3 10 0
	Error Message		1:1.0/1:0.1
7	Code Detecting Release	Error Message	
1.00 361-0	E113 (26) 13:01:39	Seral forward transmission error	

<u>Confirming the Protective function activation time</u>

When the stop for protection is activated, the Error message window pops up and the detected protection is shown.

Detecting indicates the time the protection detecting started. Release indicates the time the protection is was terminated. (deactivated).

In the graph, the detected protection is coloured.

• Graph is moved to the point of protection detecting by double-clicking Error Message Window.

Save protection condition

You can save protection status into a file by pressing "Save".

7-2-5 Check History

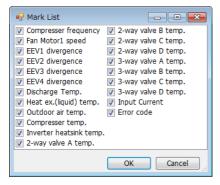
File Communit	cation Graph 1	/le <u>w V</u> ersion					
Condition	And Inc. of Control of State	Y Other					
Concident	Graphi (Gen Hett	T Guier			Mark List	Save	Load
Тіте	Compresser_frequ	Fan_Motor1_speed	EEV1_divergence[p	Discharge_Temp.[PC]	Heat_ex.(iquid)_te 4C]	Outdoor_air_temp. *[]	Heat_ex.(mi 90]
2913/05/16 20:	0.0	0.0	46.0	2.7	-2,5	3.6	-1.8
2013/05/16 20	28.0	22.0	23.0	-3.0	-4.5	4.9	1.5
2013/05/16 20:	2.0	22.0	0.0	1.3	3.6	-3.8	4.8
2013/05/16 20:	2.0	28.0	0.0	-4.3	1.6	-2.5	-1.9
2013/05/16 20:	2.0	28.0	0.0	0.0	-0.3	-1.1	1.4
2013/05/16 20:	24.0	33.0	32.0	4.3	-2.2	0.2	4,7
2013/05/16 20:	24.0	33.0	10.0	-1.4	-4.2	1.5	-2.0
2013/05/16 20:	24.0	38.0	10.0	2.9	3.9	2.8	1.3
2013/05/16 20:	46.0	38.0	10.0	-2.8	2.0	4.2	4.6
2913/05/16 20:	20.0	43.0	42.0	1.5	0.0	-4.5	-2.1
2013/05/16 20:	20.0	43.0	19.0	-4.2	-1.9	-3.2	1.2
2013/05/16 20:	20.0	49.0	19.0	0.1	-3.8	-1.9	4.5
2013/05/16 20	42.0	1.0	19.0	4.5	4.2	-0.6	-2.2
2913/05/16 20:	15.0	1.0	19.0	-1.2	2.3	0.8	1.1
2013/05/16 20:	15.0	7.0	29.0	3.1	0.4	2.1	4.4
2013/05/16 20:	15.0	7.0	6.0	-2.6	-1.6	3.4	-2.3
2013/05/16 20:	37.0	12.0	6.0	1.7	-3.5	4.7	1.0
2013/05/16 20:	11.0	12.0	6.0	-4.0	4.6	-3.9	4.3
2013/05/16 20:	11.0	17.0	38.0	0.3	2.6	-2.6	-2.4
2013/05/16 20:	11.0	17.0	16.0	4.6	0.7	-1.3	0.9

<u>Check running history</u>

You can check the hourly running condition of each actuator and values detected by sensors in this table.

<u>Select display items</u>

Press Mark List to open the following window.



You can select display items by clicking check boxes (on/off).

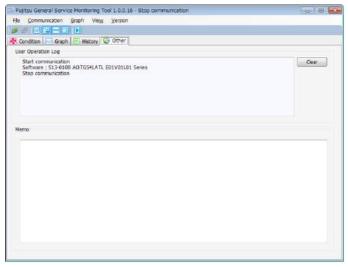
Save data into a file

You can save history data by pressing "Save".

Load data from a file

You can load history data from a file by pressing "Load".

7-2-6 Other



<u>Confirm User Operation Log</u>

This is a record of your operation in this application. It can be deleted by pressing "Clear".

<u>About Memo</u>

You can make notes of the air conditioner such as condition. It is saved into the file that you have created by recording History.

8. MESSAGES

Message	Meaning	Solution
Cannot find COM port	COM port is not found.	 Confirm if communica- tion box driver is correctly installed. Confirm if communication box is connected. Confirm if the COM port assigned to communica- tion box is selected in Setup.
Missing COM port has changed to port X	Saved COM port is not found.So configuration is changed to port X. → This can be caused by changing the port con- nected to the communi- cation box. (Because of COM number change)	 If communication box is assigned to port X (usable smallest number), you can continue. If it is not assigned to port X, you need to change configuration.
Cannot find setting file	Application's config file is missing.	 Re-install the application.
Checksum disagreement	Application's config file is broken.	
Communication driver is busy. Please wait a few minutes	Communication driver is communicating. Wait a for a few minutes and retry.	 If the same message remains for a long time, reboot application.
Bad License key	 License key is not input. License key is incorrect. 	Input correct license key.
An unexpected error has occurred	Undefined application error occurs.	Reboot application.

Message	Meaning	Solution
Communication Time Out	Communication is not es- tablished for a period	Communication with target is not stable. This can be due to noise, try the follow-
Communication Error (CS illegal)	Communication error (checksum abnormal)	 ing countermeasures. Shorten communication cable. Separate communication cable from power line (compressor lead, power line).
Communication Error (Error response)	Communication error (there is error response).	 Check other noises (Car, big motor etc.).
Cannot start communica- tion to target.	Unable to start communica- tion with the target.	 Stop the air conditioner from operating and start communication. Then, if communication does not start, the followings are possible. 1. Communication cable or communication box may be broken. Please replace the broken part. 2. Target PCB may be broken. Please replace the broken PCB.
Do not find model data. In- dicative data may be inac- curate.	Target model is not reg- istered in the model con- figuration file. Therefore, default communication parameter is used. In that case, analysis result may not be correct.	To confirm analysis result, save the data and inform FUJITSU GENERAL.
Recording data is over maximum time range. Stop communication.	Communication stops due to exceeding the maximum record time.	To continue communica- tion, save the current record into a file and start communication again.

9. POTENTIAL OF IMPROPER DATA DISPLAY

On a graph display or history display, abnormal value (compressor revolution suddenly vanishes and recovers in a few seconds etc.) can be displayed rarely. This can be caused by noise on the communication line etc. This does not cause abnormal operation to the air conditioner.

This can be reduced by shortening communication line or separating communication line from power line, but difficult to eliminate.